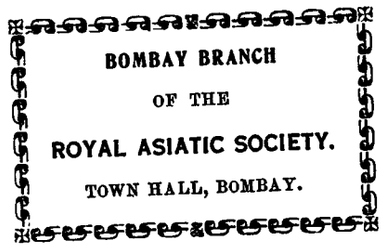
Forest Department
Madras Presy.
report
1893-94 to 1896-97

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# ANNUAL

# ADMINISTRATION REPORT

OF

# THE FOREST DEPARTMENT

## MADRAS PRESIDENCY,

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

FOR THE

134083

TWELVE MONTHS ENDING 30TH JUNE 1894.

(1893-94.)

00134083

MADRAS:
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1894.

# TABLE OF CONTENTS.


## Chapter I.—Introductory Remarks.

| | PARA. | PAGE |
|---|---|---|
| The new Forest year .. .. | 1 | 1 |
| Revision of the Forest Code .. | 2 | 1 |
| Tours of the Forest Member .. | 3 | 1 |
| Conservators' Inspections .. | 4 | 2 |
| Touring of District Forest-officers .. | 5 | 2 |
| Inspection of Range offices by District Forest-officers .. | 6 | 2 |
| Audit of the accounts of the District Forest office .. | 7 | 2 |
| Reorganization of the Subordinate Staff .. .. .. | 8 | 2 |

## Chapter II.—Areas and Boundaries.

| | PARA. | PAGE |
|---|---|---|
| Areas— | | |
| Changes during the 12 months .. | 9 | 3 |
| District areas and Forest Reserves | 10 | 3–5 |
| Reserved Forests— | | |
| Area constituted during the 12 months .. .. .. | 11 | 5 & 6 |
| Settlement— | | |
| Progress in Settlement .. | 12 & 13 | 6 & 7 |
| Selections for further reservation. | 14 | 7 & 8 |
| Outturn of work by Special Forest Settlement-officers .. | 15 | 8 & 9 |
| Work of other Settlement-officers (Divisional-officers) .. | 16 | 9 |
| Reserved lands not brought under Settlement .. .. | 17 | 9 & 10 |
| Demarcation— | | |
| Lengths demarcated .. | 18 | 10 & 11 |
| Preliminary demarcation .. | 19 | 12 |
| Permanent do. .. | 20 & 21 | 12 |

## Chapter III.—Surveys and Working Plans.

| | | | | | |
|---|---|---|---|---|---|
| Surveys .. .. .. | 22–27 | 13–16 | Working Plans .. .. | 28 | 16&17 |

## Chapter IV.—Protection and Improvement.

| | | | | | |
|---|---|---|---|---|---|
| Establishment, Ranges and Beats .. | 29 | 18 | Grass-cutting and hay-making .. | 41 | 25 |
| General Protection and Breaches of Forest Laws .. .. .. | 30–37 | 18–21 | Natural Reproduction .. .. | 42 | 25 |
| Forest Fires and Fire Protection .. | 38–39 | 21 & 22 | Artificial do. .. .. | 43–46 | 25–28 |
| Grazing .. .. .. | 40 | 23–25 | Communications and Buildings .. | 47 | 28 & 29 |
| | | | Tramways .. .. .. | 48 | 29 |

## Chapter V.—Yield and Working.

| | | | | | |
|---|---|---|---|---|---|
| Yield— | | | Removals by Purchasers .. | 52 | 32–34 |
| General .. .. .. | 49 | 29 & 30 | Comparative cost of departmental and private working .. | 53 | 34 & 35 |
| Departmental Operations— | | | Confiscated Produce .. .. | 54 | 35 |
| Trees felled and converted .. | 50 | 30 | Free Grants of Forest Produce .. | 55 | 35 & 36 |
| Produce collected and disposed of. | 51 | 30–32 | | | |

## Chapter VI.—Financial Results.

| | | |
|---|---|---|
| Revenue and Expenditure .. .. .. .. .. .. .. | 56 | 36 & 37 |

## Chapter VII.—General Remarks.

| | | | | | |
|---|---|---|---|---|---|
| Forest School .. .. .. | 57 | 38 | Service Books .. .. | 61 | 38 |
| Conduct of Establishment .. | 58 | ,, | Inventory of valuable stock .. | 62 | ,, |
| Health of do. .. | 59 | ,, | Work done by the Superior staff. | 63 | ,, |
| Elephants .. .. .. | 60 | ,, | | | |

# APPENDICES.


| | | PAGES |
|---|---|---|
| Appendix | A—Forest Settlement .. .. .. .. .. .. .. | i to iii |
| Do. | B—Causes of delay in the submission of final notifications of Forest reserves .. .. .. .. .. .. .. .. .. | iv |
| Do. | C—Reserved lands not under settlement in square miles .. .. | v |
| Do. | D—Statement showing area of reserved forests for which final maps have been prepared .. .. .. .. .. .. .. .. | vi |
| Do. | E—Statement showing the number of Forest offences reported and the particulars of their disposal .. .. .. .. .. .. | vii to viii |
| Do. | F—Statement showing the area of Forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile .. .. .. .. .. .. .. .. | ix |
| Do. | G—Natural reproduction—Artificial reproduction—Cultural operations—Experiments and Exotics—Works of improvement and improvement fellings .. .. .. .. .. .. .. .. | x to xv |
| Do. | H—Roads and Buildings .. .. .. .. .. .. .. | xvi |
| Do. | I—Statement showing the results of transport of wood by tramway compared with the transport by carts in Nellore, Cuddapah and South Coimbatore .. .. .. .. .. .. .. .. | xvii to xviii |

(*Annual Forms.*)

| | |
|---|---|
| Area of Reserved Forests (No. 59 A) .. .. .. .. .. .. .. | xix |
| Area of Reserved Lands (No. 59 B) .. .. .. .. .. .. .. | xx |
| Area of Plantations (No. 60) .. .. .. .. .. .. .. .. | xxi & xxii |
| List of Topes and Experimental Gardens (No. 61) .. .. .. .. .. | xxiii |
| Area of Forest Tracts protected from fire (No. 62) .. .. .. .. .. | xxiv |
| Prosecutions for breaches of Forest Rules (No. 63) .. .. .. .. .. | xxv |
| Summary of Revenue and Expenditure (No. 64) .. .. .. .. .. | xxvi to xxxv |
| Outstandings and Liabilities on account of Contractors and Disbursers (No. 65) .. | xxxvi to xxxviii |
| Revenue received and Outstandings on account of Revenue (No. 66) .. .. | xxxix to xli |
| Trees felled by Government Agency (No. 68) .. .. .. .. .. .. | xlii |
| Timber and other produce cut and collected by Government Agency (No. 69) .. | xliii to xliv |
| Receipts and Issues of Timber and other produce in Sale Depôts (No. 70) .. | xlv to xlvi |
| Sales of Timber and other produce cut and collected by Government Agency (No. 71) .. .. .. .. .. .. .. .. .. .. .. | xlvii to xlix |
| Timber and other produce cut and collected and removed by consumers (No. 72 A). | l |
| Timber and other produce confiscated and sold (No. 72 B) .. .. .. .. | li |
| Abstract showing the value of Timber and other produce at Sale Depôts (No. 73 A). | lii to liv |
| Abstract showing the value of Live-stock, Stores, Tools and Plant (No. 73 B) .. | liv to lvii |
| Statement of Live-stock (Elephants and Cattle) (No. 74) .. .. .. .. | lviii to lix |

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

## FOR THE TWELVE MONTHS ENDING WITH 30TH JUNE 1894.

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## CHAPTER I.

### INTRODUCTORY.

*The Forest year.*—This report embodies the transactions of the twelve months ending with the 30th June 1894. The last report having been for fifteen months, the figures of the two reports cannot be easily compared.

2. *Revision of the Forest Code.*—Mr. R. C. C. Carr, I.C.S., was placed on special duty for three months to revise the Madras Forest Code. The revised edition drafted by him is now awaiting the approval of Government. Mr. Carr's services were also utilized by the Board in revising the rules under section 26 of the Forest Act. The revised rules have since received the approval of Government.

3. *Tours of the Forest Member.*—The following table shows the tours made by the Forest Member of the Board :—

| Name of Forest Member. | Period of charge. | Duration of tours. | Locality visited. | Purpose of journey. |
|---|---|---|---|---|
| The Hon'ble Mr. A. T. Arundel. | From 1st July 1893 to 8th January 1894. | 27th July to 23rd August 1893. | Kollegal in Coimbatore, Anantapur, Kurnool and Cuddapah. | Inspection of forest settlement, &c. |
| | | 13th October to 4th November 1893. | Polavaram, Wodigudem, Bhádrachalam and Rampa in Gódávari. | To report on the conservancy of the Agency forests in Gódávari under orders of Government. |
| | | 17th December 1893 to 7th January 1894. | Mount Stuart in Coimbatore and the Nilgiris. | Forest inspection. |
| The Hon'ble Mr. J. Sturrock. | From 9th January 1894 to the end of the year under report. | 13th to 21st March 1894. | Cuddapah .. | Conference with the Collector and the District Forest-officer. |
| | | | Sríharikóta and Penubakam in Nellore. | Forest inspection. |
| | | 22nd to 28th March 1894. | Yercaud in Salem. | Forest inspection in connection with applications for lands in reserved forests for coffee cultivation. |
| | | 19th May to 2nd June 1894. | Kodaikánal in Madura and the Lower Palnis. | Forest inspection. |

4. *Conservators' inspections.*—The following table shows the time spent in camp and the inspections made by each of the Conservators during the year under report:—

| Circle. | Name of Conservator. | Number of days in charge. | Number of days spent in camp. | Districts visited. | Districts for which inspection notes were submitted to the Board. | District Forest offices inspected. |
|---|---|---|---|---|---|---|
| Northern .. | Mr. A. W. Peet .. | 365 | 187 | All the districts except Anantapur. | Gódávari and Kistna. | Kistna. |
| Central .. | Mr. E. P. Popert .. | 365 | 185 | All the districts. | South Arcot and Trichinopoly. | All the District Forest offices except Chingleput and Nellore. |
| Southern .. | Mr. J. W. Cherry .. | 304 | 191 | Do. | All the districts except South Canara. | Madura, Tinnevelly, Nilgiris, North Malabar and North Coimbatore. |
| | Mr. H. A. Gass .. | 61 | 43 | | | |

REMARKS.—The Vizagapatam district is said to have been inspected by Mr. Peet; but his inspection notes have not been received.

The touring of these officers has been satisfactory.

5. *Touring of District Forest-officers.*—The minimum period of touring of four months in every half-year prescribed for District Forest-officers having been found to be excessive, it was reduced to six months in the year.

The only officer whose actual touring fell far short of the minimum was Mr. Eber Hardie, District Forest-officer, North Malabar, who was ill and subsequently obtained furlough.

6. *Inspection of Range offices by District Forest-officers.*—The rule regarding the inspection of each Range office at least once in every half-year does not appear to have been observed in several districts, in spite of the fact that attention was drawn to the omission in the last two annual reports. The only districts in which the rule was strictly observed are Vizagapatam, Kistna, Bellary, Chingleput, Tinnevelly, South Coimbatore and Malabar.

7. *Audit of the accounts of the District Forest office.*—The Local Fund inspecting staff in the Accountant-General's office audited the accounts of all the District Forest offices, except Bellary, Nellore, Chingleput and North Arcot; the accounts of Ganjám, Vizagapatam and North and South Coimbatore were inspected twice during the year under report. No serious errors or irregularities were brought to notice, but petty mistakes, omissions and delays were numerous, and will it is feared continue, so long as sanction is withheld from the proposals which have been submitted for the reorganization of the District Forest-officer's office establishments, which are admittedly undermanned and underpaid.

8. *Reorganization of the Subordinate staff.*—Proposals to reorganize and strengthen the subordinate staff are still under correspondence with the Government of India. Meanwhile complaints of the inadequacy of the establishment are rife and measures for the improvement of the forests or the development of communications have to be postponed to the more pressing necessities of maintaining the existing revenue and the selection, demarcation and mapping of reserves.

Of the 23 District Forest charges, fifteen were in charge of Deputy Conservators, four in charge of Assistant Conservators and four in charge of Extra Assistants on the last day of the year under report.

# CHAPTER II.

## Areas and Boundaries.

9. The following abstract shows the areas of reserved forests and reserved lands at the commencement and at the close of the year :—

Abstract A.—Classes and areas of forests.

| Class of forests. | Area on 1st July 1893. | Added during the year 1893–94. | Excluded during the year 1893–94. | Net increase or decrease. | Area on 30th June 1894. |
|---|---|---|---|---|---|
| *Northern Circle.* | sq. mls. | sq. mls. | sq. mls. | sq. mls. | sq. mls. |
| Reserved forests .. .. .. .. .. | 3,254 | (*a*) 358<br>(*b*) 8 | (*b*) 12 | + 354 | 3,608 |
| Do. lands .. .. .. .. .. .. | 2,297 | (*c*) 454<br>(*b*) 11 | (*d*) 358<br>(*b*) 4<br>(*e*) 12<br>(*f*) 3 | + 88 | 2,385 |
| Total .. | 5,551 | 831 | 389 | + 442 | 5,993 |
| *Central Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 3,707 | (*a*) 583<br>(*b*) 15 | (*b*) 6<br>(*g*) 3 | + 589 | 4,296 |
| Do. lands .. .. .. .. .. .. | 2,512 | (*c*) 275<br>(*b*) 22 | (*d*) 583<br>(*b*) 28<br>(*e*) 18<br>(*f*) 1 | — 333 | 2,179 |
| Total .. | 6,219 | 895 | 639 | + 256 | 6,475 |
| *Southern Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 2,475 | (*a*) 407 | .. | + 407 | 2,882 |
| Do. lands .. .. .. .. .. .. | 2,942 | (*c*) 121<br>(*b*) 33 | (*d*) 407<br>(*b*) 20<br>(*e*) 6<br>(*f*) 3 | — 282 | 2,660 |
| Total .. | 5,417 | 561 | 436 | + 125 | 5,542 |
| *Total.* | | | | | |
| Reserved forests .. .. .. .. .. | 9,436 | (*a*) 1,348<br>(*b*) 23 | (*b*) 18<br>(*g*) 3 | + 1,350 | 10,786 |
| Do. lands .. .. .. .. .. .. | 7,751 | (*c*) 850<br>(*b*) 66 | (*d*) 1,348<br>(*b*) 52<br>(*e*) 36<br>(*f*) 7 | — 527 | 7,224 |
| Grand Total .. | 17,187 | 2,287 | 1,464 | + 823 | 18,010 |

(*a*) Transferred from reserved lands. (*b*) By rectification of area. (*c*) Newly constituted reserved lands.
(*d*) Transferred to reserved forests. (*e*) Excluded at Settlement. (*f*) Unreserved. (*g*) Disafforested.

The net result is an increase of 823 square miles in the total area reserved under the Forest Act. Large areas were notified as reserved forests during the year in Anantapur, Cuddapah, North Arcot and North Coimbatore. The principal addition to reserved lands was in Kistna in the Northern Circle.

10. The area of each district and of the reserved forests and reserved lands therein is shown in the annexed statement :—

## Abstract B.—District areas and forest reserves.

| Districts. | Total district area excluding feudatory and tributary states. | Area excluding zemindari and whole inam villages. | Cultivated area. | Particulars of remaining area (column 3—column 4). | | | Forests under the control of the Forest Department. | | | Percentage of column 10 to column 3. | Percentage of column 10 to column 7. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Uncultivated and forest areas. | Area for which returns are not available. | Total of columns 5 and 6. | Reserved forests under Act V. of 1882. | Reserved lands. | Total of reserves, columns 8 and 9. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | | |
| Ganjám | 8,369 | 4,079 | 582 | 1,260 | 2,237 | 3,497 | 133 | 441 | 574 | 14·0 | 16·4 |
| Vizagapatam | 17,242 | 1,373 | 234 | 232 | 907 | 1,139 | 29 | 274 | 303 | 22·0 | 26·6 |
| Gódávari | 7,865 | 3,823 | 1,524 | 1,831 | 468 | 2,299 | 498 | 503 | 1,001 | 26·1 | 43·5 |
| Kistna | 8,397 | 5,414 | 3,108 | 2,306 | .. | 2,306 | 627 | 545 | 1,172 | 21·6 | 50·8 |
| Anantapur | 5,287 | 4,321 | 1,702 | 2,217 | 402 | 2,619 | 302 | 140 | 442 | 10·2 | 16·8 |
| Bellary | 5,900 | 4,586 | 2,422 | 2,164 | .. | 2,164 | 285 | 262 | 547 | 11·9 | 25·2 |
| Kurnool | 7,514 | 5,924 | 1,854 | 4,070 | .. | 4,070 | 1,734 | 220 | 1,954 | 32·9 | 48·0 |
| Total .. | 60,574 | 29,520 | 11,426 | 14,080 | 4,014 | 18,094 | 3,608 | 2,385 | 5,993 | 20·3 | 33·1 |
| *Central Circle.* | | | | | | | | | | | |
| Nellore | 8,765 | 4,045 | 1,559 | 2,394 | 92 | 2,486 | 343 | 258 | 601 | 14·8 | 24·1 |
| Cuddapah | 8,731 | 7,496 | 1,961 | 5,535 | .. | 5,535 | 1,204 | 942 | 2,146 | 28·6 | 38·7 |
| Chingleput | 2,840 | 2,051 | 896 | 1,155 | .. | 1,155 | 169 | 70 | 239 | 11·6 | 20·6 |
| North Arcot | 7,497 | 3,768 | 1,179 | 2,589 | .. | 2,589 | 937 | 129 | 1,066 | 28·2 | 41·1 |
| South Arcot | 5,211 | 4,726 | 2,233 | 2,417 | 76 | 2,493 | 407 | 436 | 843 | 17·8 | 33·8 |
| Tanjore | 3,709 | 2,485 | 1,717 | 768 | .. | 768 | 19 | 5 | 24 | ·9 | 3·1 |
| Trichinopoly | 3,631 | 2,683 | 1,635 | 894 | 154 | 1,048 | 190 | 50 | 240 | 8·9 | 22·9 |
| Salem | 7,471 | 5,330 | 1,969 | 3,361 | .. | 3,361 | 1,027 | 289 | 1,316 | 24·6 | 39·1 |
| Total .. | 47,855 | 32,584 | 13,149 | 19,113 | 322 | 19,435 | 4,296 | 2,179 | 6,475 | 19·8 | 33·3 |
| *Southern Circle.* | | | | | | | | | | | |
| Madura | 8,808 | 3,196 | 1,516 | 1,252 | 438 | 1,680 | 524 | 127 | 651 | 20·3 | 38·7 |
| Tinnevelly | 5,384 | 3,508 | 2,286 | 1,222 | .. | 1,222 | 410 | 1 | 411 | 11·7 | 33·6 |
| Coimbatore | 7,860 | 7,167 | 3,727 | 3,250 | 190 | 3,440 | 1,404 | 924 | 2,328 | 32·4 | 67·6 |
| Nilgiris | 957 | 957 | 325 | 632 | .. | 632 | 248 | 189 | 437 | 45·6 | 69·1 |
| Malabar | 5,589 | 5,565 | 1,475 | 4,090 | .. | 4,090 | 190 | 413 | 603 | 10·8 | 14·7 |
| South Canara | 3,902 | 3,883 | 634 | 3,249 | .. | 3,249 | 106 | 1,006 | 1,112 | 28·6 | 34·2 |
| Total .. | 32,500 | 24,276 | 9,963 | 13,695 | 618 | 14,313 | 2,882 | 2,660 | 5,542 | 22·8 | 38·7 |
| Grand Total .. | 140,929 | 86,380 | 34,538 | 46,888 | 4,954 | 51,842 | 10,786 | 7,224 | 18,010 | 20·8 | 34·7 |

*Note.*—As the figures of district areas for 1893-94 are not available in the Settlement Department (Board of Revenue), the figures adopted for 1892-93 have been taken for the year under report.

The percentage of the area reserved under the Forest Act to the total area at the disposal of Government has risen from 33·1 on the 30th June 1893 to 34·7 on the 30th June 1894. The variations in the percentage of the area reserved to the total area at the disposal of Government in the several districts were explained in last year's report. In the *Anantapur* district, further reservation is in progress and the maximum area to be ultimately taken up has not yet been determined.

11. The subjoined statement shows by districts the area finally constituted reserved forests during the year:—

ABSTRACT C.—Reserved Forests in square miles.

| Districts. | Prior to 1892–93. | During 1892–93. (fifteen months). | During 1893–94. | Total. |
|---|---|---|---|---|
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Ganjám | 114 | .. | 19 | 133 |
| Vizagapatam | 14 | 10 | 5 | 29 |
| Gódávari | 418 | 24 | 56 | 498 |
| Kistna | 452 | 181 | *—6 | 627 |
| Anantapur | 31 | 70 | 201 | 302 |
| Bellary | 105 | 109 | 71 | 285 |
| Kurnool | 1,068 | 658 | (*a*) 8 | 1,734 |
| Total .. | 2,202 | 1,052 | 354 | 3,608 |
| *Central Circle.* | | | | |
| Nellore | 263 | 78 | 2 | 343 |
| Cuddapah | 414 | 551 | 239 | 1,204 |
| Chingleput | 146 | 9 | 14 | 169 |
| North Arcot | 513 | 175 | 249 | 937 |
| South Arcot | 164 | 221 | 22 | 407 |
| Tanjore | 9 | 7 | 3 | 19 |
| Trichinopoly | 159 | 31 | .. | 190 |
| Salem | 762 | 205 | 60 | 1,027 |
| Total .. | 2,430 | 1,277 | 589 | 4,296 |
| *Southern Circle.* | | | | |
| Madura | 467 | 12 | 45 | 524 |
| Tinnevelly | 567 | †— 157 | .. | 410 |
| North Coimbatore | 485 | 12 | 341 | 838 |
| South Coimbatore | 566 | .. | .. | 566 |
| Nilgiris .. | 207 | 26 | 15 | 248 |
| North Malabar | 119 | 32 | .. | 151 |
| South Malabar | 39 | .. | .. | 39 |
| South Canara | 93 | 7 | 6 | 106 |
| Total .. | 2,543 | — 68 | 407 | 2,882 |
| Grand Total .. | 7,175 | 2,261 | 1,350 | 10,786 |

* Three square miles were added, but nine square miles had to be deducted in consequence of rectification of area.
† Twenty-one square miles were added to the reserved forests, but 178 square miles had to be deducted in consequence of rectification of areas due to survey map measurements.
(*a*) By rectification of area.

During 1892–93 large areas which had been settled in previous years were notified as reserved forests under section 16, as explained in para. 11 of the last report.

During 1893–94, the progress of forest settlement in *Kistna* was retarded as the Special Forest Settlement-officer was engaged in other districts until towards the close of the year. In *Kurnool* one block was finally notified during the year, but its reservation does not take effect till 1894–95; the Special Forest Settlement-officer was engaged in this district for only two months during the year. The area constituted reserved forests in Ganjám, Vizagapatam, Chingleput, South Canara, Nellore, South Arcot, Tanjore and Nilgiris is comparatively small. In the first four districts, the forest settlement work is entrusted to Revenue Divisional officers who are not able to devote sufficient time to it in addition to their other duties. In *Nellore* and *Nilgiris* the reports of several large blocks, the settlement of which had been completed, were either pending scrutiny in the Board's office or had been returned to the Collectors for revision. In *South Arcot*, a number of small blocks were settled during the year, but the reports had not reached the Board before its close. The settlement of some of the old blocks in the district is delayed pending the rectification of the boundaries by the District Forest-officer. In *Tanjore* and *Tinnevelly* the whole of the area brought under settlement has been notified under section 16. In *Trichinopoly* and *South Coimbatore* there was only a very small area under settlement. In *Malabar* the large blocks had all been settled, but the final reports were pending for various reasons.

The area constituted reserved forest in a given year affords no criterion of the work done by the Forest Settlement-officers since final notifications are not always published during the year in which settlement operations were completed.

12. The appended statement shows the progress of forest settlement in the form prescribed by the Government of India.

ABSTRACT D.

| Circle. | Area of reserved lands—*vide* Abstract A above. | | | | | Area brought under Chapter II of the Madras Forest Act. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | On 1st July 1893. | Added during 1893-94. | Total. | Excluded during the year mainly by reason of constitution as reserved forests. | Balance at the end of the year. | Area notified under section 4 and not constituted reserved forests on 1st July 1893. | Added during 1893-94. | Total. | Constituted reserved forests during 1893-94. | Balance notified under section 4 but not constituted reserved forests. |
| | SQ. MS. | SQ. MS. | SQ. MS. | SQ. MS. | SQ. MS. | SQ. MS. | SQ. MS. | SQ. MS. | SQ. MS. | SQ. MS. |
| Northern .. | 2,297 | 465 | 2,762 | 377 | 2,385 | 2,104 | 157 | 2,261 | 354 | 1,907 |
| Central .. | 2,512 | 297 | 2,809 | 630 | 2,179 | 2,216 | 266 | 2,482 | 589 | 1,893 |
| Southern .. | 2,942 | 154 | 3,096 | 436 | 2,660 | 1,762 | 163 | 1,925 | 407 | 1,518 |
| Total .. | 7,751 | 916 | 8,667 | 1,443 | 7,224 | 6,082 | 586 | 6,668 | 1,350 | 5,318 |

The diminution in the area notified under section 4 during the year is accounted for by the fact that in some districts the maximum of reservation has been nearly reached, while, in others, there has been delay in demarcating, and in preparing maps for selected blocks.

13. The statement in Appendix A shows for each district the total area brought under settlement up to the end of the year under report, the total area constituted reserved forests, and the particulars of the balance under settlement on the 30th June 1894.

It will be seen from it that there were 758 blocks with an area of 5,318 square miles not constituted reserved forests at the end of the year, of which 187 blocks covering an area of 2,320 square miles had been settled and reported on as shown below:—

44 blocks of 128 square miles notified under section 16 during the year, but with effect from dates falling with in the current year.

69 blocks of 314 square miles pending [either with the Board or Government] publication of notifications under section 16.

74 blocks of 1,878 square miles returned by the Board for revision and pending either with the District Forest-officer, Collector or Forest Settlement-officer.

254 blocks [1,608 square miles] had been settled but were not reported on before the close of the year; of these,

53 were awaiting preparation of maps.
27 „ „ disposal of appeals.
24 „ „ expiration of time prescribed for appeals.
125 „ „ preparation or submission of final reports by Forest Settlement officers or Collectors.
25 „ „ awaiting replies to references made to Collectors or Board.

317 blocks [1,390 square miles] were pending with the Forest Settlement officers in various stages of settlement.

The progress made in the notification of old blocks in the Anantapur and Cuddapah districts is satisfactory; but in the Ganjám, Godavari, Bellary, Nellore, South Arcot, Salem, North Malabar, South Malabar and South Canara districts, not much improvement is perceptible in this direction. In the first three and the last three of these districts, the delay was mainly due to the inability of the Revenue Divisional officers who were entrusted with their settlement to make satisfactory progress, the time at their disposal for the extra work being more or less limited. Almost all

the old blocks pending in *Gódávari* have been since transferred to a Special Forest Settlement-officer. The work in *Bellary* is being expedited; most of the pending blocks are said to have been reported on. In *Nellore*, all the blocks excepting one were settled and reported on. In *South Arcot*, the reports were returned by the Board and were under revision. In *Salem*, final reports were delayed pending disposal of appeals against Forest Settlement officer's decisions which have been since disposed of. In *North Malabar*, the settlement remained unfinished owing to the pendency of certain appeals in the High Court which were only recently disposed of. In *South Malabar* all the old blocks were pending disposal of appeals. Of the two old blocks in *South Canara* the report of one was pending with the Board and that of the other was awaited from the Forest Settlement officer.

A statement showing the cause of the pendency of the blocks not yet constituted reserved forests is given in appendix B.

As compared with the corresponding figures for 1893 the number of blocks pending on the 30th June shows an increase while there is a decrease in the aggregate area, thus:—

| Date. | Settled and reported on but not constituted reserved forest. | | Under settlement. | | Total. | |
|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. |
| | | SQ. MS. | | SQ. MS. | | SQ. MS. |
| 30th June 1893 .. .. | 186 | 2,317 | 489 | 3,765 | 675 | 6,082 |
| 30th June 1894 .. .. | 187 | 2,320 | 571 | 2,998 | 758 | 5,318 |

14. *Selections for further reservation.*—The subjoined statement shows the area that will eventually be reserved in each district and its percentage to the total area at the disposal of Government:—

| Districts. | Maximum area that will eventually be reserved. | Percentage of the area in column 2 to the total area at the disposal of Government. | Percentage of the area already reserved to the total area at the disposal of Government. |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| | SQ. MLS. | | |
| Ganjám .. .. .. .. .. | 743 | 21·2 | 16·4 |
| Vizagapatam .. .. .. .. .. | 403 | 35·3 | 26·6 |
| Gódávari .. .. .. .. .. | 1,019 | 44·3 | 43·5 |
| Kistna .. .. .. .. .. | 1,185 | 51·3 | 50·8 |
| Anantapur .. .. .. .. .. | 567 | 21·6 | 16·8 |
| Bellary .. .. .. .. .. | 1,089 | 50·3 | 25·2 |
| Kurnool .. .. .. .. .. | 2,677 | 65·8 | 48·0 |
| Total .. | 7,683 | 42·4 | 33·1 |
| Nellore .. .. .. .. .. | 1,132 | 45·5 | 24·1 |
| Cuddapah .. .. .. .. .. | 2,640 | 47·6 | 38·7 |
| Chingleput .. .. .. .. .. | 281 | 24·3 | 20·6 |
| North Arcot .. .. .. .. .. | 1,226 | 47·3 | 41·1 |
| South Arcot .. .. .. .. .. | 1,059 | 42·4 | 33·8 |
| Tanjore .. .. .. .. .. | 62 | 8·1 | 3·1 |
| Trichinopoly .. .. .. .. .. | 373 | 41·7 | 22·9 |
| Salem .. .. .. .. .. .. | 1,830 | 54·4 | 39·1 |
| Total .. | 8,603 | 44·2 | 33·3 |
| Madura .. .. .. .. .. | 651 | 38·7 | 38·7 |
| Tinnevelly .. .. .. .. .. | 493 | 40·3 | 33·6 |
| Coimbatore .. .. .. .. .. | 2,447 | 71·1 | 67·6 |
| Nilgiris .. .. .. .. .. | (a) 437 | 69·1 | 69·1 |
| Malabar .. .. .. .. .. | 649 | 15·8 | 14·7 |
| South Canara .. .. .. .. .. | 1,424 | 43·8 | 34·2 |
| Total .. | 6,101 | 42·6 | 38·7 |
| Grand Total .. | 22,387 | 43·1 | 34·7 |

(a) The area available for further reservation in this district not being known, the area already reserved has been taken to be the maximum area that will eventually be reserved.

In the case of Vizagapatam (non-agency), Gódávari (non-agency), Kurnool, Nellore, Cuddapah, Chingleput and Madura, final estimates of the area of further reservation

have been approved by Government; for the other districts, final schemes are due from the Collectors; and the areas available for further reservation have been based on the very rough estimates furnished by Collectors in 1893 for the purpose of estimating the amount of settlement work still remaining to be done. Further reservations have to be made in all the districts except Madura before the maximum is reached.

In *Gódávari*, the question of further reservation is confined to the Agency tracts of Yellavaram and Pólavaram divisions, concerning which the final orders of Government are awaited. The delay in *Kurnool* is attributed to the difficulty in obtaining efficient surveyors and draughtsmen for surveying and mapping selected blocks and to the inadequacy of the subordinate staff. In *Nellore* progress is said to have been retarded by the absence of karnams on jamabandi duty; but it is hoped that the work will be completed in 1894–95. Some progress was made during the year in *Cuddapah* and *Chingleput* districts, and the Collectors are taking steps to finish the work as soon as possible. In the other districts, selections are being made by Range officers; but the notifications under section 4 have been detained in some cases pending the inspection and approval of the proposed reserves by the District Forest-officers or for the preparation of maps, &c. The want of revenue survey maps operates as a special difficulty in the *Anantapur*, *Salem* and *Trichinopoly* districts. In *South Arcot*, pressure of settlement and final demarcation operations stood in the way of progress in selection. In *Tanjore*, the areas selected by the Revenue officers have been inspected by the District Forest-officer, but it has not yet been decided what areas should be proposed for reservation. In *North Arcot*, the selection is said to be completed in all but two taluks, which are to be taken up shortly.

The areas to be selected for further reservation are very small in the Southern Circle except in the Tinnevelly and South Canara districts. In the *Nilgiris* the question of making further selections without circumscribing extension of cultivation is being investigated by the Collector.

15. *Outturn of work by the Special Forest Settlement-officers.*—The outturn of work by the Special Forest Settlement-officers during the year is shown below:—

ABSTRACT E.—Outturn of work by Special Forest Settlement-officers during 1893–94.

| Name of Special Forest Settlement-officer. | Districts. | Issue of proclamation after notification under section 4. | | Settlement of claims. | | Report after settlement submitted. | | Final notification proclaimed. | | Cost. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Number of blocks. | Area. | Number of blocks. | Area. | Number of blocks. | Area. | Number of blocks. | Area. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. | RS. |
| Mr. J. T. Lever .. .. | Gódávari .. .. | .. | .. | .. | .. | 3 | 22 | .. | .. | 10,215 |
| | Kistna .. .. | 17 | 14 | 22 | 22 | 10 | 16 | 3 | 2 | |
| | Kurnool .. .. | 6 | 5 | 15 | 125 | 1 | 2 | 1 | 2 | |
| | Total .. | 23 | 19 | 37 | 147 | 14 | 40 | 4 | 4 | 10,215 |
| Mr. E. A. Smith .. .. | Anantapur .. .. | 14 | 36 | 8 | 21 | 9 | 62 | 19 | 166 | 11,258 |
| | Bellary .. .. | 36 | 63 | 10 | 22 | 8 | 21 | 6 | 71 | |
| | Nellore .. .. | .. | .. | 1 | 40 | 4 | 140 | 2 | 24 | |
| | Total .. | 50 | 99 | 19 | 83 | 21 | 223 | 27 | 261 | 11,258 |
| Mr. W. C. McMurray .. | Cuddapah .. .. | 8 | 69 | 4 | 86 | 12 | 106 | 17 | 139 | 11,108 |
| | North Arcot .. .. | 25 | 97 | 12 | 53 | 12 | 63 | 12 | 191 | |
| | South Arcot .. .. | 45 | 51 | 38 | 71 | 22 | 25 | 7 | 5 | |
| | Salem .. .. | 10 | 21 | 3 | 4 | 4 | 90 | 6 | 39 | |
| | Total .. | 88 | 238 | 57 | 214 | 50 | 284 | 42 | 374 | 11,108 |
| M.R.Ry. C. Raju Sastri .. | South Arcot .. .. | .. | .. | 10 | 95 | 7 | 77 | 1 | 7 | 11,710 |
| | Tanjore .. .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| | Trichinopoly .. | 26 | 10 | 13 | 6 | 3 | 2 | 1 | 2 | |
| | Madura .. .. | 19 | 15 | 22 | 63 | 30 | 66 | 31 | 48 | |
| | Tinnevelly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| | Coimbatore .. .. | 7 | 56 | 5 | 54 | 7 | 246 | 6 | 48 | |
| | Total .. | 52 | 81 | 50 | 218 | 47 | 391 | 39 | 103·2 | 11,710 |
| | Grand Total .. | 213 | 437 | 163 | 662 | 132 | 938 | 112 | 742·2 | 44,291 |
| | In 1892–93 .. .. | 253 | 753 | 126 | 691·3 | 198 | 1,316 | 246 | 2,036 | 52,849 |

*Erratum to the Board's Forest Administration Report for* 1893–94.

| In abstract F at page 9. | Under number of blocks disposed of. | | Under number of blocks pending with Forest Settlement-officers at the end of 1893–94. | |
|---|---|---|---|---|
| | *For.* | *Read.* | *For.* | *Read.* |
| Against General Deputy Collector, Ganjám ... ... ... | 7 | 1 | 24 | 23 |
| Total of the district ... ... ... ... ... | 8 | 2 | 57 | 56 |

Judged by the number and area of blocks in which claims were settled as well as of those for which reports were submitted during the year, Messrs. McMurray and Raju Sastri have done the largest amount of work; but the conditions vary so much in different districts, and even in different blocks in the same district that no very satisfactory inferences can be drawn from tabulated figures.

16. *Outturn of work by the Revenue Divisional officers entrusted with forest settlement work.*—The subjoined statement shows the settlement work turned out by the Revenue Divisional officers who were entrusted with forest settlement work :—

ABSTRACT F.—Forest Settlement work done by Revenue Divisional officers.

| District. | Name of officer. | Blocks pending with Forest Settlement officers at the beginning of 1893–94. | | Added during 1893–94. | | Total. | | Disposed of during 1893–94. | | Blocks pending with the Forest Settlement officers at the end of 1893–94. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. |
| Ganjám | Principal Assistant Collector | 9 | 6 | .. | .. | 9 | 6 | 1 | 4 | 8 | 2 |
| | Senior Assistant Collector | 17 | 32 | 8 | 7 | 25 | 39 | .. | .. | 25 | 39 |
| | General Deputy Collector | (a) 22 | 403 (b)+2 | 2 | 6 | 24 | 411 | 7 | 15 | 24 | 396 |
| | Total | 48 | 443 | 10 | 13 | 58 | 456 | 8 | 19 | 57 | 437 |
| Vizagapatam | Principal Assistant Collector | 4 | 26 | .. | .. | 4 | 26 | 1 | 21 | 3 | 5 |
| | Head Assistant Collector | 12 | 223 | .. | (b)23 | 12 | 246 | .. | .. | 12 | 246 |
| | Total | 16 | 249 | .. | 23 | 16 | 272 | 1 | 21 | 15 | 251 |
| Gódávari | Special Assistant Collector. | 2 | 182 | .. | .. | 2 | 182 | (c) 2 | 182 | .. | .. |
| Bellary | Deputy Collector, Adóni | 6 | 25 | .. | .. | 6 | 25 | 1 | 2 | 5 | 23 |
| Chingleput | Mr. Pinto | 61 | 32 | 50 | 27 | 111 | 59 | 44 | 13 | 67 | 46 |
| Nilgiris | Head Assistant Collector | 12 | 85 (b)+13 | 8 | 15 | 20 | 113 | 17 | 111 | 3 | 2 |
| Coimbatore | Head Assistant Collector | 4 | 8 | .. | .. | 4 | 8 | .. | .. | 4 | 8 |
| Malabar | Sub-Collector | 1 | 40 | 1 | 2 | 2 | 42 | .. | .. | 2 | 42 |
| | Head Assistant Collector | .. | .. | 4 | .. | 4 | .. | .. | .. | 4 | .. |
| | Special Assistant Collector. | 14 | 171 | 1 | .. | 15 | 171 | .. | .. | 15 | 171 |
| | Deputy Collector, Wynaad. | 3 (b)+2 | 160 | 2 | .. | 7 | 160 | .. | .. | 7 | 160 |
| | Total | 20 | 371 | 8 | 2 | 28 | 373 | .. | .. | 28 | 373 |
| South Canara | Head Assistant Collector | 1 | 1 | 33 | 88 | 34 | 89 | .. | .. | 34 | 89 |
| | General Deputy Collector | 2 | 29 | 1 | 1 | 3 | 30 | 1 | 1 | 2 | 29 |
| | Total | 3 | 30 | 34 | 89 | 37 | 119 | 1 | 1 | 36 | 118 |

(a) The notification of one block was cancelled. (b) By rectification.
(c) Transferred to Special Forest Settlement-officer.

Mr. Pinto in Chingleput and Mr. Cobb, I.C.S., in Nilgiris, were the only Divisional officers who did good work as Forest Settlement officers. Mr. Cobb was the Forest Settlement officer of Nilgiris up to the end of December 1893 and he completed the settlement of almost all the blocks then pending, notably the Sigur reserve which was long pending and in connection with which many tedious claims had to be settled and numerous patta lands acquired. The settlement of this exceptionally difficult and malarious tract of country is reported to have been thoroughly well executed by Mr. Cobb with the assistance of Mr. Morgan, the District Forest-officer.

17. *Reserved lands not brought under settlement.*—The area of reserved lands not yet brought under settlement is shown in Appendix C.

The areas not yet brought under settlement are still considerable in South Canara, Kistna, Salem, North Coimbatore, Cuddapah, Nilgiris and Bellary. In the last two districts, the reserved lands not brought under settlement consist of leased forests which it is not intended to bring under settlement. In the other districts, out of the 338 square miles transferred for settlement during the year, 136 square miles were from areas of reserved lands constituted in previous years as shown in the margin. The progress in *South Canara* is satisfactory. In *Kistna*, the time of the District Forest-officer and his subordinates was mainly taken up during the year with the elaboration of a scheme for regulating the grazing in reserved areas which has just received the approval of Government. In *Salem*, the delay is attributed to the fact that the boundaries of the reserved lands require to be added to or altered before they can be notified for settlement. In the case of *North Coimbatore* a large extent of cultivable lands in the Erode taluk, which had been retained as reserved lands for a long time pending the consideration of their fitness to be constituted reserved forests, was upon the Collector's report ordered to be set free for cultivation subsequent to the close of the year. No explanation is given for the want of progress in *Cuddapah*.

| | Transferred for settlement during 1893-94. | Area constituted reserved land in previous years. |
|---|---|---|
| South Canara ... | 87 | 87 |
| Kistna ... ... | 36 | 2 |
| Salem ... ... | 35 | 9 |
| North Coimbatore ... | 37 | 37 |
| Cuddapah ... ... | 81 | 1 |
| Nilgiris ... ... | 15 | ... |
| Bellary ... ... | 47 | ... |

18. *Demarcation.*—The following statement shows the length of boundary lines preliminarily and permanently demarcated up to and during the year under report, and the total and average cost of the work :—

## Abstract G.—Demarcation work done during 1893-94.

| | Preliminary. | | | | | | | Permanent. | | | | | | | Reclearing old lines, &c. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Up to 1893-94. | | During 1893-94. | | | Total. | | Up to 1893-94 | | During 1893-94. | | | Total. | | Up to 1893-94. | | During 1893-94. | | Total. | |
| | Miles. | Cost. | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Miles. | Cost. | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Miles. | Cost. | Miles. | Cost. | Miles. | Cost. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| *Northern Circle.* | | Rs. | | Rs. | Rs. A. P. | | Rs. | | Rs. | | Rs. | Rs. A. P. | | Rs. | | Rs. | | Rs. | | Rs. |
| Ganjám .. .. | 36 | 146 | .. | .. | .. | 36 | 146 | 930 | 13,547 | 82 | 1,102 | 13 7 0 | 1,012 | 14,649 | 210 | 511 | 152 | 350 | 362 | 861 |
| Vizagapatam .. | 107 | 134 | 11 | 18 | 1 10 2 | 118 | 152 | 101 | 803 | 75 | 1,693 | 22 9 2 | 176 | 2,496 | 63 | 614 | .. | .. | 63 | 614 |
| Gódávari .. .. | 560 | 3,055 | 24 | 194 | 8 1 4 | 584 | 3,249 | 690 | 8,111 | 14 | 60 | 4 4 7 | 704 | 8,171 | .. | .. | .. | .. | .. | .. |
| Kistna .. .. | 209 | 1,651 | 320 | 1,042 | 3 4 1 | 529 | 2,693 | 557 | 10,779 | 8 | 62 | 7 12 0 | 565 | 10,841 | .. | 1,139 (i)2,967 | .. | 784 (i) 58 | .. | 1,923 (i) 3,025 |
| Anantapur .. | (b) 35 | 140 | 231 | 10 | 0 0 8 | 266 | 150 | 670 | 10,895 | 55 | 933 | 16 15 5 | 725 | 11,828 | 190 | 930 | .. | 20 | 190 | 950 |
| Bellary .. .. | (j) 62 | 36 | 373 | 675 | 1 12 11 | 435 | 711 | (j) 134 | 1,160 | 145 | 703 | 4 13 7 | 279 | 1,863 | 22 | 142 | .. | .. | 22 | 142 |
| Kurnool .. .. | 982 | (k)14,159 | 515 | 1,103 | 2 2 3 | 1,497 | 15,262 | 14 | 160 | 25 | 1,073 | 42 14 9 | 39 | 1,233 | .. | .. | .. | .. | .. | .. |
| Total .. | 1,991 | 19,321 | 1,474 | 3,042 | 2 1 0 | 3,465 | 22,363 | 3,096 | 45,455 | 404 | 5,626 | 13 14 10 | 3,500 | 51,081 | 485 | 6,303 | 152 | 1,212 | 637 | 7,515 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | | | |
| Nellore .. .. | 252 | 1,081 | .. | .. | .. | 252 | 1,081 | 889 | 6,522 | 84 | 510 | 6 1 2 | 973 | 7,032 | 433 | 987 | 3 | 9 (i)+48 | 436 | 996 (i) +48 |
| Cuddapah .. .. | (b) 69 | 84 | 360 | 687 | 1 14 6 | 429 | 771 | 1,367 | 26,649 | 144 | 1,499 | 10 6 7 | 1,511 | 28,148 | 16 | 39 | 10 | 340 (a) 121 | 26 | 379 (a) 121 |
| Chingleput .. .. | (b) 110 | 682 | 249 | 1,006 | 4 0 8 | 359 | 1,688 | 486 | 12,078 | 76 | 853 | 11 3 7 | 562 | 12,931 | 8 | 1,072 | .. | 574 (a) 409 | 8 | 1,646 (a) 409 |
| North Arcot ... | (b) 430 | 4,184 | .. | .. | .. | 430 | 4,184 | 1,535 | 23,815 | 458 | 5,250 | 11 7 5 | 1,993 | 29,065 | 138 | 1,077 | 212 | 716 | 350 | 1,793 |
| South Arcot .. | 850 | 1,991 | 94 | 246 | 2 9 10 | 944 | 2,237 | 519 | 3,394 | 383 | 4,941 | 12 14 5 | 902 | 8,335 | 103 | 319 | .. | .. (a)1,442 | 103 | 319 (a) 1,442 |
| Tanjore .. .. | 323 | 211 | 7 | 10 | 1 6 10 | 330 | 221 | 38 | 408 | .. | .. | .. | 38 | 408 | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. | 473 | 2,392 | 224 | 550 | 2 7 3 | 697 | 2,942 | 214 | 2,069 | 7 | 88 | 12 9 2 | 221 | 2,157 | .. | .. | .. | (a) 345 | .. | (d) 345 |
| Salem .. .. | (b) 664 | 588 | 489 | 1,002 | 2 0 9 | 1,153 | 1,590 | 2,069 | 21,541 | 432 | 2,196 | 5 1 4 | 2,501 | 23,737 | 203 | 327 | 590 | 1,288 | 793 | 1,615 |
| Total .. | 3,171 | 11,213 | 1,423 | 3,501 | 2 7 4 | 4,594 | 14,714 | 7,117 | 96,476 | 1,584 | 15,337 | 9 10 11 | 8,701 | 1,11,813 | 901 | 3,821 | 815 | 5,292 | 1,716 | 9,113 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | | | |
| Madura .. .. | (b) .. | .. | .. | .. | .. | .. | .. | (j) 848 | (j)16,091 | .. | .. | .. | 848 | 16,091 | 575 | 8,578 | 340 | 1,370 | 915 | 9,948 |
| Tinnevelly .. | 17 | 624 | 180 | 255 | 1 6 8 | 197 | 879 | (k) 210 | (j) 6,943 | 94 | 1,197 | 12 11 9 | 304 | 8,140 | 978 | 6,939 | 44 | 367 | 1,022 | 7,306 |
| North Coimbatore. | 785 | 7,060 | 46 | 586 | 12 11 9 | 831 | 7,646 | (j) 303 | 3,013 | 53 | 1,451 | 17 7 8 | 386 | 4,464 | 121 | 1,631 | 117 | 849 (a) 539 | 238 | 2,480 (a) 539 |
| South Coimbatore.. | (b) 15 | 85 | 41 | 368 | 8 15 7 | 56 | 453 | 417 | 9,142 | 65 | 747 | 11 7 10 | 482 | 9,889 | 223 | 1,300 | 72 | 493 | 295 | 1,793 |
| Nilgiris .. .. .. | (b) .. | .. | 59 | 421 | 7 2 2 | 59 | 421 | 957 | 23,552 | 9 | 126 | 14 0 0 | 966 | 23,678 | 79 | 528 | 157 | 2,203 (a) 452 | 236 | 2,731 (a) 452 |
| North Malabar .. | (b) 39 | 179 | (d)— 18 | (d)—76 | .. | 21 | 103 | 296 | 4,349 | (e) 76 | (e)1,031 | 13 9 1 | 372 | 5,380 | .. | (f) .. | .. | (c) 183 | .. | (c) 183 |
| South Malabar .. | (j) 54 | (g) 180 | 47 | 250 | 5 5 7 | 101 | 430 | (j) 67 | (g) 805 | 17 | (h) 107 | 6 4 8 | 84 | 912 | (g) 6 | (g) 25 | 10 | 143 33 | 16 | 143 58 |
| South Canara .. | (b)1,281 | 1,029 | 230 | 154 | 0 10 9 | 1,511 | 1,183 | 230 | 4,279 | 23 | 394 | 17 2 1 | 253 | 4,673 | .. | .. | .. | 348 | .. | 348 |
| Total .. | 2,191 | 9,157 | 585 | 1,958 | 3 5 7 | 2,776 | 11,115 | 3,328 | 61,174 | 367 | 5,053 | 13 12 3 | 3,695 | 73,227 | 1,982 | 19,001 | 740 | 6,980 | 2,722 | 25,981 |
| Grand Total .. | 7,353 | 39,691 | 3,482 | 8,501 | 2 7 1 | 10,835 | 48,200 | 13,541 | 2,10,105 | 2,355 | 26,016 | 11 0 9 | 15,896 | 2,36,121 | 3,368 | 29,125 | 1,707 | 13,484 | 5,075 | 42,609 |

(a) This represents the cost of establishment, &c. (b) In spite of instructions the Collector has not explained the difference between the total amount entered here and that in Form No. 64 against VIII (a). (c) Cost of sign boards. (d) Having been permanently demarcated the length and cost have been transferred to that heading. (e) Includes 18 miles and its cost Rs. 76 transferred from preliminary demarcation heading. (f) The Collector reports that the cost incurred up to 1893-94 had been included in the sum under permanent demarcation. (g) Cost of reclearing was included under this head. This has been separated and shown under its proper head. (h) Includes Rs. 26 being the pay and allowance of a temporary Forester employed for one month. (i) Cost of erecting stone posts. (j) Differences between the closing balances of 1892-93 and the opening balances of 1893-94 have not been explained by the Collectors. (k) Correct figures as now reported by the Collector.

19. *Preliminary demarcation.*—The outturn of work under this head during the year was *nil* in Ganjám, Madura, North Arcot and Nellore. Further reservation of forests in the first named district awaits the decision of Government on the question of the conservancy of the agency forests. In *Madura* reservation having reached the maximum area available, there was no work under this head. In *North Arcot* it is said that all new selections are permanently demarcated at the outset with stone slabs, as no alterations of boundaries are expected to be made at settlement, and even should any be decided on, the cost of shifting the slabs will be comparatively very light. In *Nellore* some temporary marks were put up with the aid of Forest guards for the blocks selected and notified under section 4. It is reported that arrangements have since been made to demarcate them temporarily by a cleared line; hence the outturn of work during the year under review is shown as *nil*. The small outturn in *Vizagapatam* and *Gódávari* is due to the same reason as that assigned for absence of work in Ganjám. In *Coimbatore* and *Malabar*, the area demarcated is commensurate with the area selected. The adoption of Revenue Survey stones as boundary lines of new selections in *Tanjore* accounts for the small quantity of work done in that district. The short outturn in *South Arcot* is due to more attention having been paid to permanent demarcation and settlement; and that in *Nilgiris* was attributable to the fact that the question of making further selections without affecting extension of cultivation was under consideration.

Compared with the average cost of preliminary demarcation during 1892–93, the cost per mile during the year under review is small in Anantapur and Tinnevelly. In *Anantapur* this result is due to the preliminary demarcation work having been done by the existing establishments; and in *Tinnevelly* it is due to the adoption of the Revenue Survey field stones as pillars for preliminary demarcation, as also to the replacement of missing stones at the expense of the Revenue Department and of the owners of adjoining patta lands.

20. *Permanent demarcation.*—The outturn of work during the year under review has been very small in Gódávari, Kistna, Trichinopoly, Nilgiris and South Malabar. In *Gódávari* it was owing to the exclusion of Forest officers from the agency tracts; and in *Kistna* to more time having been devoted to preliminary demarcation. No explanation has been furnished for the short work in *Trichinopoly* but it is also probably due to more attention having been paid to preliminary demarcation. In *Nilgiris* the reserves in former years were demarcated permanently, as selected, with posts and mounds which have not stood the test of wear and tear, but which are being replaced by substantial stone cairns. 157 miles were thus redemarcated and this accounts for the small outturn (9 miles) of new work. In *South Malabar* the short work is due to the fact of there being no more reserves to be finally demarcated.

The cost rate of permanent demarcation during the year compared with that in 1892–93 is high in Vizagapatam, South Arcot, Kurnool, North Coimbatore and Ganjám, and small in Cuddapah, North Arcot, South Coimbatore, Nilgiris and North Malabar. The high rate in *Vizagapatam* and *South Arcot* was due to the system of uprooting stumps in the lines cleared and to the adoption of a more substantial method of demarcation than that pursued in former years; and in *Kurnool* to the erection of boundary cairns with solid stone in chunam in lieu of loose stone cairns. In *North Coimbatore* the increase is attributed to the difficulty experienced in procuring labour on the hills for demarcating the Nilgiri eastern slopes. No explanation has been furnished for the increase in *Ganjam*. The decrease in *Cuddapah* and *North Arcot* is accounted for by the fact that no demarcation with stone walls was done in the former district, and that in most cases very little had to be cleared in the latter. The small average in *Nilgiris*, *South Coimbatore* and *North Malabar* is attributable to the fact that, unlike the practice in former years, the cost of renewals of old pillars and cutting of trenches in the first named district, and the widening and reclearing of old lines in the last two districts, was not included in the item of permanent demarcation during the year under review.

21. The total expenditure incurred during the year on both kinds of demarcation including the reclearing of old lines amounted to Rs. 48,001 against Rs. 49,571 as per audited accounts (F No. 64). The variation is due to differences in certain districts which have not been explained by Collectors.

In future reports Collectors are requested to furnish information regarding the character of the permanent demarcation adopted and the Conservators to offer their opinion as to whether it is commensurate with the requirements of the department.

# CHAPTER III.

## SURVEYS AND WORKING PLANS.

22. The Survey of India Party was engaged during the year chiefly in the Salem and North Arcot districts; but certain reserves in the Palni Hills in Madura were also surveyed. In the *Salem* district, the area surveyed includes a number of detached reserves in the Salem taluk and a large block of forest on the Chitteri and Kalráyan Hills in the Uttankarai taluk. In the *North Arcot* district, the work lay in the Palmanér and Gudiyáttam taluks, and consisted in the survey of forests on the slopes of the Mysore plateau and of a few outlying reserves. In the *Madura* district, only six square miles of sholas in the Palnis which had been taken up subsequent to the withdrawal of the Party from the district in the preceding year were surveyed.

In addition to this, triangulation was extended through the Hosúr, Dharmapuri, and Krishnagiri taluks of the *Salem* district and the Gudiyáttam and Palmanér taluks of *North Arcot*. A considerable length of boundary traversing was also carried out. Some of this in North Arcot was wasted work, owing, it is said, to faulty demarcation. The corrected boundaries are to be resurveyed in the current year.

The topography was drawn on 62 sheets, of which 24 were held back, five for additions, seven pending settlement and twelve (in *North Arcot*) for resurvey of boundaries; the remaining 38 sheets are in process of publication, and it is hoped that the twelve sheets relating to the *North Arcot* District will be sent for publication in the current field season.

The following table shows the outturn during the year in each district:—

| Districts. | Triangulation. | Traversing. | Topography. |
|---|---|---|---|
| | SQ. MLS. | LINEAR MLS. | SQ. MLS. |
| Madura .. .. .. .. .. .. .. | .. | .. | 6 |
| Salem .. .. .. .. .. .. .. | 1,600 | 2,132 | 464 |
| North Arcot .. .. .. .. .. .. | 400 | 3,024 | 411 |
| Total .. { 1893-94 .. | 2,000 | 5,156 | 881 |
| Total .. { 1892-93 .. | 3,430 | 139 | 788 |

The outturn of topography is the highest on record; and the cost rate is the lowest. These results are attributed chiefly to the increase in the effective strength of the Party.

| Year. | Topography completed. | Cost rate per square mile. |
|---|---|---|
| | SQ. MLS. | RS. |
| 1888-89 .. .. .. | 168 | 162 |
| 1889-90 .. .. .. | 214 | 149 |
| 1890-91 .. .. .. | 465 | 112 |
| 1891-92 .. .. .. | 659 | 97 |
| 1892-93 .. .. .. | 788 | 78 |
| 1893-94 .. .. .. | 881 | 73 |
| Total .. | 3,175 | .. |

The total expenditure, including cost of instruments, was Rs. 82,559 for the financial and Rs. 78,549 for the survey year ending with 31st August 1894. Excluding the contribution payable by the Government of India, the cost for the financial year as adjusted by the Accountant-General in the forest accounts of this Presidency amounted to Rs. 63,092.

Maps have not yet been published for 363 square miles, out of the total area surveyed, as specified below:—

| | Area. SQ. MLS. |
|---|---|
| (1) Four sheets of the Kalráyan hills in Salem, of which the survey is not yet completed ... ... ... ... ... ... ... | 78 |
| (2) No. 80 Kalladipatti in Salem, boundary not notified as yet .. | 10 |
| (3) Forests in North Arcot, above referred to, of which the boundaries have to be rectified ... ... ... ... ... ... | 275 |
| Total ... | 363 |

23. The Board has recently submitted to Government a report on the work turned out by the temporary staff of surveyors and draughtsmen employed in the department during the last official year. The following summary is extracted therefrom :—

| Circle. | Work done in 1893-94. | | Work remaining to be done. | |
|---|---|---|---|---|
| | By surveyors. | By draughtsmen. | By surveyors. | By draughtsmen. |
| 1 | 2 | 3 | 4 | 5 |
| *Northern.* | | | | |
| Eight surveyors and seven draughtsmen. | Fifty-four reserves surveyed ; maps for several reserves and tracings from taluk maps prepared ; reserves marked in the taluk maps. | One hundred and two new sketch-maps prepared ; several reserve maps copied ; reserves in the district and taluk maps, &c., posted. | Several new reserves to be surveyed and mapped, and the unsurveyed patta lands included in certain blocks to be surveyed. | Maps for 91 blocks to be prepared. Two copies of each reserve map to be made for range officers, &c.; position of reserves to be posted in district and taluk maps and alterations made at settlement to be carried out. |
| *Central.* | | | | |
| Three surveyors and eight draughtsmen. | Fourteen reserves surveyed and a few sketch-maps prepared. | Six hundred and twenty-nine new maps prepared ; several reserve maps copied and checked ; reserves in the district and taluk maps posted ; alterations made at settlement attended to. | Nineteen reserves to be surveyed. | Five hundred and sixty-three blocks to be mapped ; several reserve maps to be copied ; position of reserves to be posted in the district and taluk maps. |
| *Southern.* | | | | |
| Five surveyors and six draughtsmen. | Several new reserves surveyed ; a few new maps and several tracings prepared ; and areas computed ; certain reserves, &c., demarcated. | Areas computed ; sketch-maps and tracings, &c., for 124 blocks prepared ; several reserve maps checked ; 28 sketches copied ; reserves in district and taluk maps posted. | Three hundred and thirteen blocks to be demarcated ; maps for several proposed reserves to be prepared after survey of boundaries. | Ninety-two tracings to be prepared ; 26 maps to be corrected ; several range and district maps to be prepared ; position of reserves to be posted in district and taluk maps. |

The work done has been mainly in connection with the selection and settlement of reserves. The Conservators do not report very favorably on the progress made. In the Northern Circle satisfactory work was turned out in Kistna and Ganjám. In *Vizagapatam* one man was found incompetent and was allowed to resign while his successor was unable to stand the climate. In *Bellary*, *Kurnool* and *Anantapur* the men employed were found to be inefficient and had to be replaced several times.

In the Central Circle the work was chiefly confined to the Salem district, but progress was retarded by the incompetence of the men and the unhealthiness of the localities in which they had to work.

In the Southern Circle the survey work in *South Canara* did not progress as fast as it should have done owing to the fact that isolated blocks were surveyed and time was lost in travelling from one block to another. In *South Malabar* the work was delayed owing to excessive rain and want of competent surveyors, the only surveyor who was employed fell ill before he could clear 17 miles of boundary. In *Tinnevelly*, the surveyor was employed in demarcating new blocks selected for reservation. No survey work was done in other districts.

24. In the report for the previous year it was stated that arrangements had been made with the Superintendent, Madras Survey, to have foresters trained in survey work. Under this arrangement only one forester in the Salem district was deputed during the year for the purpose of undergoing the special training. The department being undermanned, it is not possible to give effect to the order, pending the augmentation of the subordinate establishment.

25. The preparation of maps for submission to Government with draft notifications under section 4 for proposed reserves is at present regulated by the following rules :—

(1) In surveyed tracts where maps are available, the District Forest-officer has only to mark the approximate limits of the proposed blocks on these maps and get the reserve map prepared therefrom under his orders.

(2) If the District Forest-officer is unable to have the reserve map thus prepared, he is to send a tracing of the taluk map to the Survey office.

(3) Even in tracts for which village maps are not available, if the District Forest-officer can himself get the area surveyed and the map accurately and expeditiously prepared, he is to adopt this course in preference to obtaining the map from the Survey office.

(4) Where a tracing has to be sent to the Survey office, the map is to be prepared in that office by fitting together cuttings from the village maps if they exist, or by enlarging the taluk maps to the required scale. The District Forest-officer will then have the temporary forest boundary marks entered on the map as accurately as he can to prepare for final settlement. He can also send the map back to the Survey office for verification if necessary.

(5) In unsurveyed tracts where it is difficult to get the boundaries surveyed accurately, the blocks can be extended, when expedient, under the present policy of Government in regard to forest reservation, up to surveyed limits, and the boundaries of the reserve as originally proposed can be shown approximately on the maps.

Alterations that may be found necessary in the course of settlement, are made with the assistance of the Forest Settlement-officer.

The maps thus corrected are submitted to Government with the draft final notification under section 16.

26. The final maps are prepared in the following manner:—

If the area of the reserve does not exceed 10 square miles, the District Forest-officer gets any interior details not already shown entered in a clean copy of the map, and when this has been done, the map together with the records of the measurement of all changes made during settlement is sent to the Survey office for the preparation of the final map. If the area of the reserve exceeds 10 square miles, the missing interior details need not be filled in by the District Forest-officer; but the map showing the boundary with the records of measurement is sent through the Conservator to the Superintendent, Survey of India Party; but if there should be reason to consider that the final map can be completed departmentally with sufficient accuracy, reference should be made to the Conservator, and if necessary to the Board, for orders. In this connection attention is invited to the correspondence ending with the Government of India letter to the local Government, dated 28th December 1893, No. 1327-F.

The area of reserved forests for which final maps have been prepared for each district up to 30th June 1894, is shown in the statement appended to this report—*vide* Appendix D.

The area of reserved forests for which final maps had not been prepared up to 30th June 1894 was 2,843 square miles.

27. During the year under report, instructions were issued for the maintenance of a uniform set of maps of the following description in the District and Range offices:—

(1) A district forest reference map, being the office reference maps on 4 miles to the inch scale published by the Survey office, posted up with all reserves, roads, buildings, forest stations, range divisions, &c.

(2) A range forest reference map, being the 1 inch to the mile topographical map of the Survey office, posted up as in the case of the district reference map, but in more exact detail, and showing names of hills and streams, minor forest stations, &c.

(3) Separate maps for each reserve with topographical features usually on the 8 inches to the mile scale, or any other scale that may be found suitable and showing all enclosures, rights of way, forest roads and stations, compartment lines, &c. These would be prepared by enlargements from the Range maps or reductions from village maps or furnished by the Survey of India Party.

(4) Separate working circle maps usually on the 8 inches to the mile scale, or on such other scale as may be required in each case.

Each District Forest-officer has been ordered to have a set of all the above maps mounted in book form; and each Range officer to have one copy of Nos. 2, 3, and 4 mounted in book form and also one additional copy of Nos. 3 and 4 mounted in scroll form for computing areas, &c.

Marginal references are to be given on all the maps, showing the scale, areas, names of roads and buildings and stations; and as regards reserves, their number, name, area, outline, when declared reserved, when permanently demarcated, when surveyed, &c.

28. *Working Plans.*—Not much was done towards the formation of regular working plans, but system is being introduced in several districts so far as is possible with the limited establishments and with settlement work still unfinished. Statistics of demand and supply for each reserve separately are being collected in all the districts for future working plans.

*Northern Circle.*

*Ganjám.*—A record was made of the measurements of Sal trees on various selected $\frac{1}{4}$ acre plots.

*Vizagapatam.*—A few experiments were made to find out the yield per acre of the Golgonda ordinary forest, and a rough working plan was made out for working the Golgonda ordinary (not Agency) forests with a view to the eventual supply of fuel to the Railway.

*Gódávari.*—No new working plans were framed; but some reserves were closed against cutting pending the formation of working plans, and some statistics were collected.

*Kistna.*—In *Kistna* some pains have been taken by the District Forest-officer to introduce some system. A working plan is in force for the Babul (*Acacia arabica*) reserves in Guntúr taluk. With the exception of five or six standards per acre, the yield in coupe 1 gave an average of six tons an acre of large wood and two tons of small wood, besides 100 yoke loads of thorns. Coupe 2 gave 5·2 tons of large wood, 1·3 of small wood and twenty yoke loads of thorns.

The mangrove forests were treated more systematically in Bandur and Bápatla ranges. The seven reserves were divided into three blocks. A definite working plan cannot be made at present for want of maps, for want of reliable statistics of growth, and because the sea is encroaching in one and receding in the other tract; but information is being systematically collected. Some attempt was also made to introduce system in the treatment of the Yepi (*Hardwickia binata*) forests of Palnad and Vinukonda. This species of tree has been recklessly pollarded in former years chiefly for fodder and fibre. The chief aim of the District Forest officer was to discover the demand for the wood of this species and of *Anogeissus* and *Chloroxylon* as the chief associated trees, all other species being classed as miscellaneous.

It was anticipated, and found to be the case in practice, that the demand would be chiefly for the better class of trees. The largest demand was for Hardwickia, but as these trees are for the most part pollarded it is better that they should give place to seedlings or coppice.

A demand may spring up for the other species, and the experiment may well be persevered in.

In Vinukonda range, Bollapalli reserve and Bollapalli extension were formed into a working circle, divided into twelve compartments. The demand here was very small because of the cheap rates in Agraharam forests, the absence of timber dealers, and because the Hardwickia was smaller than in the other block.

*Bellary.*—Mr. Hooper's working plan for the Sandúr leased forests was sanctioned by Government, but work was not commenced during the year because the sanction arrived too late.

*Central Circle.*

*Nellore.*—The plan for the Sriharikóta forest was somewhat modified owing to difficulties of transport. Work in the second khandam has been spread over three years, the yield this year being 2,748 tons.

The difficulties of transport have been provided against by an addition of $1\frac{1}{4}$ miles of tramway received from North Arcot, and by the introduction of the system of selling wood on the spot, instead of transporting it to Madras.

The working plans for the casuarina plantations had to be modified owing to the large number of dead trees, of which nearly 25,000 were cut during the year yielding nearly 1,100 tons. These casualties are on the increase.

*Cuddapah.*—There were no new working plans and the Balapalli working plan had to be modified owing to the absence of demand till the latter end of the year.

*North Arcot.*—In this district seven coupes were worked departmentally in various reserves, and seventeen coupes were sold to contractors in accordance with provisional working plans. It was found that the net profit per acre on the former was Rs. 2-3-1 and from the latter Rs. 2-5-6. The reason for the lower profit by departmental agency was that the work was done more carefully.

The average yield per acre for the 1,569 acres cut departmentally was 4·17 tons, besides a yield of 3,357 posts and logs fit for agricultural implements.

*South Arcot.*—The working plan for Annamalai reserved forest was passed and acted on during the year..

A working plan was made out for the casuarina plantations of Talankoda, Fort St. David and Shonankuppam.

Data have been collected for a working plan for the casuarina plantation of Doni Durai (North and South), Nochikadu and Periakuppam. Completion of the plan is delayed pending settlement of part of the proposed working circle.

A considerable number of coupes have been opened under preliminary working plans, but out of 23 marked out in various reserves, twelve were not sold during the year owing to slackness in demand.

*Trichinopoly.*—The only forests worked under a regular working plan are the Padugai plantations (casuarina) on the south bank of the Cauvery. The yield was half as much again as the estimate; but it is hard to compare results at present as the plan was made for the official year, and results are for the forest year.

*Salem.*—The working plan in force for the Morur block had to be deviated from during the year, for want of demand. There is, however, now a favourable demand from the Railway.

Although no definite working plans were framed during the year, coupes were opened in several reserves on a fixed principle, and statistics are being collected for future working both departmentally and by contractors.

*Southern Circle.*

*Tinnevelly.*—No definite working plans have been completed, but the forests of this district have long been worked on a sort of system, coupes being opened and worked sometimes departmentally, sometimes through contractors.

*North Coimbatore.*—No regular working plans were formed, but a commencement was made towards some system by the District Forest-officer, who issued detailed instructions for the restriction of felling under permit to definite localities. Two coupes were marked out near each of the towns of Kollegal, Satyamangalam and Bhavâni.

*South Coimbatore.*—No new working plans have been made out; but some progress has been made towards a small working plan for block I of Chinnar (575 acres); and another for a portion of Odanthorai in the Méttupálaiyam range.

*Nilgiris.*—The only fresh step towards the formation of new working plans reported during the year was the survey, by a forester, of the Kallia, Little Kallia and Newman plantations.

Work was carried on in accordance with the working plans made out by Mr. Gamble for the other plantations, but considerable revision of these is now required, because in the first place the period for which some were drawn out has elapsed, and in the second place because there is not sufficient demand for the wood. There are a large number of private plantations on the Nilgiris, and the competition has reduced the value of firewood almost below the cost of production. It seems advisable to alter the system of pure coppice to one of coppice under-standard, or even to convert many of the reserves now under coppice to high forest.

*South Malabar.*—Work was carried on in Nilambúr in accordance with the working plan; but this was found to require revision. The estimated number of trees were not obtained from the thinnings. During the next year it will be necessary to remove many dead and dying trees even from areas not marked for treatment in the working plan. A fresh valuation survey is in progress, and a renumbering of the standing stock in the old plantations.

The Wálayár reserve was worked in accordance with the working plan.

# CHAPTER IV.

## PROTECTION AND IMPROVEMENT.

### (a) *Establishment, Ranges and Beats.*

29. *Establishment.*—The establishment for two years in each circle is shown below :—

| | Northern Circle. | | | Central Circle. | | | Southern Circle. | | | Total. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1892-93. | 1893-94. | Difference. | 1892-93. | 1893-94. | Difference. | 1892-93. | 1893-94. | Difference. | 1892-93. | 1893-94. | Difference. |
| *Permanent.* | | | | | | | | | | | | |
| Controlling staff— | | | | | | | | | | | | |
| Conservators .. .. .. | 1 | 1 | .. | 1 | 1 | .. | 1 | 1 | .. | 3 | 3 | .. |
| Deputy Conservators .. .. | 5 | 4 | — 1 | 6 | 6 | .. | 6 | 5 | — 1 | 17 | 15 | — 2 |
| Assistant Conservators .. .. | 3 | 1 | — 2 | 2 | 3 | + 1 | 3 | 4 | + 1 | 8 | 8 | .. |
| Extra Assistants including three Sub-Assistants .. .. .. | 4 | 4 | .. | 5 | 3 | — 2 | 4 | 4 | .. | 13 | 11 | — 2 |
| Subordinate staff— | | | | | | | | | | | | |
| Forest rangers .. .. .. | 15 | 17 | + 2 | 22 | 22 | .. | 20 | 19 | — 1 | 57 | 58 | + 1 |
| Foresters .. .. .. .. | 31 | 29 | — 2 | 48 | 45 | — 3 | 48 | 52 | + 4 | 127 | 126 | — 1 |
| Forest guards .. .. .. | 222 | 213 | — 9 | 299 | 297 | — 2 | 210 | 210 | .. | 731 | 720 | —11 |
| Office establishment— | | | | | | | | | | | | |
| Clerks .. .. .. .. | 18 | 19 | + 1 | 42 | 37 | — 5 | 45 | 44 | — 1 | 105 | 100 | — 5 |
| Peons, &c. .. .. .. .. | 66 | 70 | + 4 | 70 | 52 | —18 | 63 | 61 | — 2 | 199 | 183 | —16 |
| Total .. | 365 | 358 | — 7 | 495 | 466 | —29 | 400 | 400 | .. | 1,260 | 1,224 | —36 |
| *Temporary.* | | | | | | | | | | | | |
| Rangers .. .. .. .. | .. | 1 | + 1 | .. | .. | .. | .. | .. | .. | .. | 1 | + 1 |
| Surveyors .. .. .. .. | 7 | 5 | — 2 | 4 | 4 | .. | 5 | 3 | — 2 | 16 | 12 | — 4 |
| Draughtsmen .. .. .. | 7 | 7 | .. | 6 | 5 | — 1 | 4 | 5 | + 1 | 17 | 17 | .. |
| Foresters .. .. .. .. | 1 | 1 | .. | 15 | 12 | — 3 | .. | 4 | + 4 | 16 | 17 | + 1 |
| Overseers .. .. .. .. | .. | 1 | + 1 | 1 | 1 | .. | .. | .. | .. | 1 | 2 | + 1 |
| Supervisors .. .. .. | .. | 13 | +13 | 4 | 12 | + 8 | 15 | 15 | .. | 19 | 40 | +21 |
| Depôt-keepers .. .. .. | 3 | 3 | .. | 11 | 5 | — 6 | 11 | 10 | — 1 | 25 | 18 | — 7 |
| Clerks .. .. .. .. | 7 | 9 | + 2 | 14 | 11 | — 3 | 7 | 15 | + 8 | 28 | 35 | + 7 |
| Permit-keepers .. .. .. | 36 | 23 | —13 | 17 | 11 | — 6 | 10 | 3 | — 7 | 63 | 37 | —26 |
| Guards .. .. .. .. | 25 | 34 | + 9 | .. | 17 | +17 | .. | .. | .. | 25 | 51 | +26 |
| Peons .. .. .. .. | 34 | 47 | +13 | 6 | 9 | + 3 | 10 | 14 | + 4 | 50 | 70 | +20 |
| Mahouts .. .. .. .. | 6 | 2 | — 4 | .. | .. | .. | 64 | 79 | +15 | 70 | 81 | +11 |
| Tannahdars .. .. .. | 189 | 137 | —52 | 217 | 148 | —69 | 183 | 262 | +79 | 589 | 547 | —42 |
| Maistries .. .. .. .. | .. | .. | .. | 12 | 6 | — 6 | 4 | 8 | + 4 | 16 | 14 | — 2 |
| Gardeners .. .. .. .. | 62 | 61 | — 1 | 61 | 30 | —31 | 22 | 17 | — 5 | 145 | 108 | —37 |
| Lascars .. .. .. .. | 6 | 8 | + 2 | 20 | .. | —20 | 8 | 8 | .. | 34 | 16 | —18 |
| Watchers .. .. .. .. | 122 | 137 | +15 | 715 | 770 | +55 | 207 | 211 | + 4 | 1,044 | 1,118 | +74 |
| Boat syrang .. .. .. | 1 | 1 | .. | 1 | 2 | + 1 | 1 | 1 | .. | 3 | 4 | + 1 |
| Total .. | 506 | 490 | —16 | 1,104 | 1,043 | —61 | 551 | 655 | +104 | 2,161 | 2,188 | +27 |

The figures given above represent the number of officers and subordinates actually on duty on the last day of each of the two years in question. The decrease in the permanent establishment is due to the absence of a larger number of officers on leave, or for other causes as the sanctioned scale remained unaltered during the year under report. In the temporary establishment there were various changes in the numbers in the classes of subordinates, but an increase in the total number of 27 hands.

From almost every district there is a cry for larger establishments, more especially in the subordinate grades. The promotion is very slow and there is a feeling of hopelessness which is not conducive to efficiency. Many Dehra Dun passed Rangers have no prospects at present.

### (b) *General protection and breaches of Forest laws.*

30. The statement in Appendix E shows the number of forest offences reported and the particulars of their disposal.

31. The actual decrease in the number of new cases reported this year as compared with the new cases in last report was 898; but a period of 15 months was dealt with in that report. As it is not possible to state what proportion the cases for the extra three months might be presumed to bear to the rest of the period, the remarks on increase or decrease will be made with reference to the actual figures as they stand. In the number of new cases as compared with the new cases in last report there are noticeable fluctuations in some districts. The form in the margin gives the figures.

| Years. | No. |
|---|---|
| 1892–93 ... ... ... ... | 10,905 |
| 1893–94 ... ... ... ... | 10,007 |

| | Increase. | | Decrease. |
|---|---|---|---|
| Kistna .. ... | 25 | Ganjám ... | 41 |
| Anantapur ... | 46 | Vizagapatam... | 519 |
| Nellore ... | 15 | Gódávari ... | 525 |
| North Arcot .. | 171 | Bellary ... | 166 |
| South Arcot ... | 193 | Kurnool ... | 92 |
| Tinnevelly ... | 193 | Cuddapah ... | 169 |
| South Malabar. | 2 | Chingleput ... | 95 |
| South Canara .. | 844 | Tanjore ... | 13 |
| | | Trichinopoly... | 341 |
| | | Salem ... | 199 |
| | | Madura .. | 32 |
| | | North Coimbatore. | 28 |
| | | South Coimbatore. | 100 |
| | | Nilgiris ... | 60 |
| | | North Malabar | 7 |

For the increase, that in *Kistna* is due to a large increase in the number of grazing cases, mostly of a petty nature, due to increased attention to enforcing rules. The returns for the previous year were defective in *Anantapur*, but there is an increase which is accounted for by increased vigilance, the increase in *Nellore* is attributed to the same cause. The considerable increase in *North Arcot* is due to more general detection, and that in *South Arcot* chiefly to more particular attention being paid to grazing; the result being that the revenue rose from about Rs. 8,000 to Rs. 15,000. The nominal nature of protection against illicit grazing has been complained of in former reports. In *Tinnevelly* there is an anomaly in the returns which makes comparison difficult, namely, that all offences which are reported are entered in the register, whether any offenders are discovered or not. This is an unnecessary innovation. In *South Canara* the increase is very large and is reported to be due to an increase of establishment. A guard is now associated with a watcher and the two go on the beat in company. In many reserves there are special watchers and thus for portions of a beat there are sometimes three men. This system wants watching, for arguments on both sides are obvious.

For the decrease, that in *Ganjám* was normal; that in *Vizagapatam* was large, two causes accounting for it: in the first place the returns last year were abnormally high owing to the late resumption by the Government of Palkonda taluk; and in the second place the office was so weak that the District Forest-officer could not exercise due supervision during part of the year, and the Palkonda ranger became thoroughly inefficient through ill health. The decrease in *Gódávari* was due largely to the absence of driftwood cases, as the Forest Department was excluded for some time during the year from the Agency tracts; the number of new cases generally however is very low and is attributed to the same cause. The decrease in *Bellary* is slightly larger than can be accounted for by the shorter time under report, and is to be attributed to want of establishment. The decrease in *Kurnool* is normal; that in *Cuddapah* is slightly in excess of normal, but is not explained. There is not much to remark on about *Chingleput*, *Tanjore*, or even *Salem*, comparing the two periods. In *Trichinopoly* the numbers were probably rather high in the previous year in comparison with other districts; however the District Forest-officer is of opinion that a large number of cases, chiefly of goat grazing, still go unreported; in *Madura* the returns are defective; and detection seems low for the area of the district; better establishment is required; in *North Coimbatore* the forests are too large and scattered for the small establishment to protect them properly; in *South Coimbatore* protection is easier, but as the forests are in compact blocks petty cases are not so frequent as in some districts; in the *Nilgiris* the decrease is normal.

A remark on the small number of cases in *North* and *South Malabar* was made in the previous year's report and an explanation called for. The explanation is that in both districts the greater part of the land is private, Government forest is contracted into comparatively small and compact limits, and there is a vast amount of forest land outside the Government limits. In *South Malabar* no applications were made for grazing permits, and all the reserves might be closed if necessary; in *North Malabar*, Wynaad, the cases most to be feared are major cases of timber theft by Mysore people, and there is an absence of the petty cases of grazing and minor thefts

of wood which go to swell the number of offences in many districts. It is possible that the large number of cases in *South Canara* may be accounted for partly by the opposite reason, that the forests are much more intermixed with private lands.

32. Of the cases pending at the end of the two periods under comparison, there is a decrease of 345 for the year under report. In *Ganjám* there is a considerable decrease, but this is partly due to the withdrawal of some forty-four old pending cases. In *Gódávari*, a large number of driftwood cases were pending with the Magistrates at the end of 1892–93; during the year under report there were no such cases. The number pending in *Kistna* shows a considerable diminution, but is still high—279. The decrease in *Cuddapah* is satisfactory and most of the cases pending are petty cases in process of being compounded. The large number pending in *South Arcot* (207) comprises 149 with the District Forest-officer, the balance are with Magistrates; those with the District Forest-officer are said to be well in hand. In *South Canara* there is no explanation of the large number pending (418), but this number is not relatively very excessive.

33. The percentage of cases withdrawn to cases disposed of is high in *Ganjám* (16), but these were chiefly long pending cases of no great importance. In *Kistna* 10 per cent. were withdrawn, being either long delayed cases or cases brought against cattle owners in ignorance of the High Court ruling that owners were not criminally liable if cattle strayed during their absence. The percentage of cases withdrawn in *Chingleput* was 14, for want of sufficient proof; the percentage of 16 in *South Arcot* is less than that of last year, but is still high. In *Tanjore* the very high percentage of withdrawals (24) is due to the fact that a weak establishment had been sending up ill-proved cases and the District Forest-officer withdrew all doubtful ones; in *Tinnevelly* the number of withdrawals is misleading—it is put down at 23 per cent., but includes numerous cases of offences reported where no offenders were discovered; in *South Coimbatore* and the *Nilgiris* the percentages of withdrawals were due to faulty charges.

34. Of the cases compounded the percentage for the Presidency compared with the cases disposed of was 51 against 39 in the previous year. There was a considerable increase in Vizagapatam, Kistna, Kurnool, Cuddapah, South Arcot, Tinnevelly, South Malabar and South Canara. The percentage was very high in *South Malabar* (75), but there were only three cases compounded; in the majority of these cases the greatest care was taken to sift the evidence, and only cases which were considered proved were compounded. The power of compounding was retained in all cases by the District Forest-officer and never delegated to subordinates. Generally the cases compounded were trivial and in most cases the offenders much preferred to compound. In many districts the law is so well-known that the offer of compounding is refused if the offender thinks the case sufficiently doubtful.

There were a few cases of high compounding rates, but the average for the Presidency was only Rs. 7–1 per case or Rs. 3–1 per person accused. The average per person accused was Rs. 3–15 in *North Malabar* a big timber district, Rs. 5–6 in *Kurnool* Rs. 4–4 in *North Arcot*, Rs. 3–2 in *South Arcot* and a less amount in most of the others.

35. The percentage of acquittals was almost the same as last year (22). The percentage increased in Ganjám, Vizagapatam, Gódávari, Anantapur, South Arcot, Salem, South Coimbatore and South Canara; and decreased in the other districts, particularly North Malabar, Madura (16 against 55), Trichinopoly, North Arcot, Nellore and Kurnool. The very high percentage in *Ganjám* was in long pending cases. It is said that the magistracy is now dealing promptly with forest cases. Considerable care is shown in most districts now in dealing with offence registers, but they are not yet quite reliable. In *Kurnool*, for instance, till the beginning of the year under report the registers dealt only with cases compounded, but this is now remedied; in *Tinnevelly*, as above mentioned, some offences were registered though the offenders were not detected; in *Madura* the returns are admitted to be defective. Care is necessary to have all registers fully written up on the same principle, and the question is under report. As regards the nature of offences, the majority are either for petty thefts of wood or cattle-trespass. There were a large number of cattle trespass cases in Kistna, North Arcot, South Arcot, Trichinopoly, Salem, and a moderately large amount in Tinnevelly, North and South Coimbatore; but it is almost inevitable when serious efforts are taken to carry out rules which in too many cases

have been infringed with or without the connivance of the subordinates in former years. It is admitted that the unrecorded cases in many other districts which show light returns are very numerous, owing to weakness of establishment.

36. There were some serious cases. In *Cuddapah* a reserve watchman was found murdered, but the accused were acquitted. A case of embezzlement against a permit issuing gumastah is under inquiry. A large number of persons were charged with obstructing officers on demarcation duty; but exemplary punishment in a bad case stopped this practice. In *North Arcot* three months' rigorous imprisonment was given for setting fire to a reserve; in *Salem* there were some important cases for theft of sandalwood; in *Ganjám* a watcher who was taking two men, who had been felling wood illicitly, to the ranger was set upon by some villagers in an attempt at rescue, and killed: two men were sentenced to four years' rigorous imprisonment each for this; in *North Coimbatore* a theft of rosewood by some influential men met with exemplary punishment; this was all the more necessary as theft, particularly of sandalwood, is rife. In *South Malabar* the most important cases related to the removal of boundary pillars and the cultivation of land in an attempt to gain possession of Government escheat lands selected for reservation. These were still pending at the end of the year.

37. With reference to the remarks made in the foregoing paragraphs the Board considers that it must be borne in mind that it is a matter of extreme difficulty to form any opinion on the administration of the penal provisions of the Act from mere figured statements and brief reports. The Collector and District Magistrate of each district alone is in a position to go into the matter thoroughly as cases arise, and Government must look to him to see that compounding is not overdone, and that proceedings in the criminal courts are conducted, not only without grave irregularities, but in such a manner as to inflict a minimum of hardship on petty offenders who in many cases have only broken rules which were new to them without being aware of the gravity of the offences they were committing. If the calendars of the lower courts are carefully scrutinised, and the attention of the District Forest-officer drawn to every case in which an unnecessary or vexatious prosecution has been instituted, much will be done to check any tendency on the part of subordinates to earn rewards or praise by an appearance of zeal in detection, while on the other hand public interests will be served if the District Forest-officer is afforded an opportunity of seeing all calendars of forest cases and thus placed in a position to draw the attention of the Collector and District Magistrate to cases in which Subordinate Magistrates seem to have shown incapacity, or misdirected sympathy with offenders against laws which are not yet popular. So far as the information supplied by the reports and statements go, the Board sees no reason to suspect any serious excess of zeal, except perhaps in the case of South Canara from which a special report has been called for. In this district the number of cases has risen within the last year or two to be the highest in the Presidency although there are practically no grazing cases which largely swell the numbers in other districts. The percentage of compositions is also very high, and a certain number of the cases are said to have consisted of simple trespass.

### (c) *Forest fires and fire-protection.*

38. The results of fire-protection are given in the following abstract:—

*Fire-protection.*

| Circle. | Up to 31st March 1892. | | During 1892–93 (15 months). | | | During 1893–94. | | |
|---|---|---|---|---|---|---|---|---|
| | Area of forest reserves attempted in square miles. | Total cost per square mile. | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. |
| | | Rs. A. P. | | | Rs. A. P. | | | Rs. A. P. |
| Northern .. .. | 1,103½ | 54 5 8 | 1,312 | 98 | 14 10 0 | 1,172 | 90 | 11 4 11 |
| Central .. .. | 2,321 | 46 2 9 | 2,407 | 92 | 9 3 10 | 2,484 | 95 | 5 10 5 |
| Southern .. .. | 1,172 | 110 6 3 | 1,381 | 98 | 18 8 6 | 1,388 | 95 | 13 9 5 |
| Total .. | 4,596½ | 64 8 2 | 5,100 | 95 | 13 2 3 | 5,044 | 94 | 9 2 5 |

The total cost of fire-protection was Rs. 46,155 against Rs. 67,020 for the fifteen months of the last report. The decrease is due to the shorter period, the cost in the year before last being Rs. 45,318.

In the Central and Southern Circles the area burnt is reported at 5 per cent. of the area attempted : in the Northern Circle at 10 per cent.

In the Central Circle in *Nellore* only 2 per cent. was burnt, in *Cuddapah* 10 per cent., in *North Arcot* 2, in *South Arcot* 1, in *Salem* 3, in *Trichinopoly* there was no fire-tracing, but there were hardly any fires, in *Chingleput* there were no fires. The fires in almost all cases are supposed to have been deliberately caused by cattle-owners chiefly for the sake of getting young grass.

In the Northern Circle the percentage burnt in *Ganjám* was 5, in *Vizagapatam* 2, in *Gódávari* 9, in *Kistna* 4 in one part and 2 in another, in *Anantapur* 9, in *Bellary* 14, in *Kurnool* 35. The fires in *Gódavari* were so heavy a record, because almost the whole of a large reserve was burnt over by the forest inhabitants : and in another part of the district (the Ellore range) the fires are said to have come from the Nizam's forests. In *Kistna* a great difficulty was experienced in checking fires coming over the borders of Kurnool, and in checking incendiarism on that frontier. In *Anantapur* the large percentage may be due to an attempt to protect too much, the area entered this year being nearly double that mentioned in an inspection note in 1892 : fires here are caused chiefly by graziers. In *Bellary* the most careful fire-protection is attempted. There were three fires in each range. In the north-east Range the fires were attributed one to a fire crossing from the Raja's forest, one to carelessness of a traveller, one to incendiarism. In the Ramandrug range the fires were attributed, one to accident when burning the fire lines, one from fire from the Raja's forest, one from lightning. In the Donimalai range two fires came from the Raja's forest, and one is attributed to lightning. Considering that the hills here are masses of iron, the lightning theory is not impossible. There is no doubt that the great danger this year was from the Raja's forest, and the Board regrets to notice the absence of the cordial co-operation in fire-protection which was given by the late Raja. It is surmised that burning the Raja's forest was favoured rather than otherwise by the authorities. In *Kurnool* about 39 square miles out of 111 square miles were burnt. These results are undoubtedly due to deliberate incendiarism by Chenzus, who are about the most impracticable forest tribe in the Presidency, but who have rather unfortunately been conceded rights at settlement which place them almost beyond control. There is probably another element at work besides the usual proclivities of forest men to fire forest for facilitating locomotion, for driving game, or for pure mischief, and that is bribes from graziers. It is useless attempting to protect large areas under the present conditions in these forests. The advisability of firing certain parts of the forest to save the rest, should be carefully considered by the local officers.

In the Southern Circle the area burnt in *Madura* was 2 per cent., in *Tinnevelly* 10 per cent., in *North Coimbatore* 20 per cent., in *South Coimbatore* 2 per cent., in the *Nilgiris* 1 per cent., and in *North Malabar* 3 per cent. There were no fires in *South Malabar*, and hardly anything was burnt in the protected area in *South Canara*. In *Tinnevelly* the fires occurred chiefly outside the area under the strictest protection, and were caused mainly by incendiaries; one or two fires were caused by contractors through carelessness, and some of the fires are attributed to lightning. In *North Coimbatore* fires were very numerous, most of them being supposed to have been deliberate. Fire-protection here however is not systematic.

The returns for all districts are very hard to compare, because, not only do the conditions of growth and climate vary, but the ideas of what constitutes rigid protection vary also very considerably. In some districts regular fire-lines are made, and fire-patrols are systematically trained to their duties, and kept strictly to these duties only, in other districts fire-patrols are treated more as general watchers, in others fire-lines are not considered necessary, but the protection by fire-patrols is considered sufficient, in one district at least fire-lines without fire-patrols is considered sufficient.

39. The cost per square mile consequently varies considerably. For instance in *Nellore*, the cost per square mile actually protected was Rs. 4; in *Cuddapah* Rs. 7; in *Chingleput* Rs. 13–4; in *North Arcot* Rs. 5; in *South Arcot* Rs. 3–9; in *Salem* Rs. 32. In this last district only a comparatively small area is attempted, the growth is tolerably rapid, and probably the protection is quite systematic. Similarly in the Northern Circle fire-protection is comparatively cheap in *Ganjám*, and some other districts, because general : the average in one part of *Kistna* was Rs. 11–8 per square

mile, in another Rs. 5; while in *Bellary* the average per square mile actually protected was Rs. 33, because here work was thoroughly systematic. In the Southern Circle the cost of fire-protection was reduced from Rs. 19 to Rs. 15 a square mile. In *Tinnevelly* the cost is high, namely, Rs. 30–2, but here it is believed that fire-patrols do some general duty. In *North Coimbatore* the cost is only Rs. 3–9, but the protection is very general. In *South Coimbatore* the cost is Rs. 28–6, but here it is systematic. In the *Nilgiris* the cost was under Rs. 5, but here the operations are much mixed, grass-burning to protect the sholas being one of them: actual fire-tracing is limited. In *North Malabar*, where vegetation is very luxuriant, the protection cost Rs. 24. Protection here was very successful on the whole. In *South Malabar* there were no fires at all, and considering the systematic operations, the cost of a little over Rs. 14–3 was very moderate. In *South Canara* the high rate of Rs. 25–10, per square mile actually protected was reached; but this contrasts very favorably financially with the Rs. 78 of last year. The reason of the difference is a cheaper style of working and because the District Forest-officer trusted to fire-lines, and reduced watchers to a minimum. This succeeded during the season under report, but the Conservator, Southern Circle, doubts the correctness of the policy.

### (d) *Grazing.*

40. The following table shows the grazing revenue in each district during the past year as compared with the results for the previous fifteen months:—

| Districts. | Revenue from grazing fees, grazing contracts and sale of grass realized in | | Rates of grazing fees evied. |
|---|---|---|---|
| | For 1892–93 (15 months). | For 1893–94 (12 months). | |
| 1 | 2 | 3 | 4 |
| | Rs. | Rs. | |
| Ganjám .. .. .. .. .. | 2,642 | 2,801 | Half rates charged. |
| Vizagapatam .. .. .. .. .. | 75 | 190 | Do. |
| Gódávari .. .. .. .. .. | 4,356 | 3,359 | Do. |
| Kistna .. .. .. .. .. .. | 45,425 | 74,087 | Full rates charged. |
| Anantapur .. .. .. .. .. | 1,559 | 2,459 | Half rates charged. |
| Bellary .. .. .. .. .. .. | 3,943 | 2,920 | Do. |
| Kurnool .. .. .. .. .. | 10,846 | 11,077 | Do. |
| Total .. | 68,846 | 96,893 | |
| Nellore .. .. .. .. .. .. | 15,055 | 15,584 | Grazing is leased out in this district. |
| Cuddapah .. .. .. .. .. | 10,954 | 10,426 | Full rates charged. |
| Chingleput .. .. .. .. .. | 5,403 | 5,785 | Full rates in some cases and ½ in others. |
| North Arcot .. .. .. .. .. | 11,669 | 42,782 | Maximum on non-privileged and half on privileged cattle. |
| South Arcot .. .. .. .. .. | 8,623 | 15,173 | Local cattle, half rates: rest, full. |
| Tanjore .. .. .. .. .. | 687 | 482 | Full rates charged. |
| Trichinopoly .. .. .. .. .. | 5,303 | 5,442 | Do. |
| Salem .. .. .. .. .. .. | 18,300 | 19,654 | Half rates on privileged, and full rates on non-privileged cattle. |
| Total .. | 75,994 | 1,15,328 | |
| Madura .. .. .. .. .. .. | 1,014 | 3,075 | Do. do. |
| Tinnevelly .. .. .. .. .. | 4,280 | 5,311 | Do. do. |
| North Coimbatore .. .. .. .. | 41,250 | 27,588 | Do. do. |
| South Coimbatore .. .. .. .. | 14,625 | 6,286 | Do. do. |
| Nilgiris .. .. .. .. .. | 4,936 | 7,420 | The maximum on the district non-privileged cattle, half on privileged cattle, and (under special sanction) double the maximum on alien cattle. |
| North Malabar .. .. .. .. | 455 | 1,226 | Three annas on buffaloes and two annas on cows, bulls, &c. |
| South Malabar .. .. .. .. | 128 | 79 | Grass is cut and not grazed in this district. |
| South Canara .. .. .. .. .. | .. | 3,685 | Half rates. |
| Total .. | 66,688 | 54,670 | |
| Grand Total .. | 2,11,528 | 2,66,891 | |

Compared with the returns for the previous fifteen months there was an increase in the Northern Circle of Rs. 28,047, an increase in the Central Circle of Rs. 39,334, and a decrease in the Southern Circle of Rs. 12,010: the nett increase being Rupees 55,363.

*In the Northern Circle* the increase accrued almost entirely in the Kistna district, where there was an increase of Rs. 28,662, from which, however, Rs. 5,000 will have to be refunded because charged on dharmakhandams (free grazing grounds). This is the great grazing district of the Circle, and the District Forest-officer paid much attention to the question of regulating the grazing departmentally as far as possible, to the exclusion of contractors. The main principle is the dividing up of the forests into grazing parcelles of some 5,000 acres each. A separate fee is charged for each parcelle, but a guarantee is given that only a certain number of cattle will be admitted into each. There was some opposition last year, but the system is further developed during the current year with good results in the increase of revenue, and absence of complaints. During the year the grazing in the forests was for the most part regulated departmentally, and the remaining waste only leased to contractors. Previously the forests were leased also. Complaints were so frequent against contractors that their agency will be restricted as much as possible. As regards other districts in the Circle few remarks seem called for. Grazing is not properly regulated in most of them, and a considerable development of revenue might be made without unduly pressing on the resources of the people. There was a slight increase in *Kurnool*, where the system of leases was re-introduced owing to want of establishment. The Board considers that the reversion to a system of leases is to be regretted and that it would have been better if temporary establishments had been applied for. Leasing saves trouble and presents a fictitious appearance of economy, but every evil which can prevail under a departmental system can thrive under leases with a greater freedom from control. Of course the departmental detailed supervision of grazing makes much greater demands on the time of the controlling officers, but grazing is a most important matter and on grounds both of policy and finance it is right that it should receive much attention from all officers of the department. There was a slight increase also in *Anantapur*, but a decrease in *Gódávari*.

*Central Circle.*—The only districts in this Circle where there were considerable advances in revenue compared with the figures for the previous fifteen months were *North Arcot*, where the increase was Rs. 31,113 and *South Arcot* where the increase was Rs. 6,550. In the former the excess is due in great measure to the fact that permits were sold late in the previous year and the revenue credited during the year under report; in the latter it is due to stricter supervision. In this district alien cattle are charged full fees and local cattle half fees. This distinction may be justified in certain places from local considerations, but it seems open to question whether this policy is applicable to a whole district. Although the returns under this head from other districts show only small variations from last year, yet there is an improvement in most districts considering that the returns are for twelve instead of fifteen months. Care seems to have been taken in most districts to prevent overgrazing, but this is difficult in all cases. In *Trichinopoly* owing to a combination among contractors the grazing was not leased out, but permits were sold departmentally.

*Southern Circle.*—There was a decrease in the whole Circle under this head, occurring in North and South Coimbatore. There was an increase in Madura, Tinnevelly, Nilgiris and North Malabar, and fees were collected for the first time in South Canara. In this latter district half rates were charged and Rs. 3,685 collected, which is a good beginning. In *North Malabar* fees are collected only in the reserved forest. In the *Nilgiris* the system of annual instead of quarterly permits was introduced, half the special double rates sanctioned for the district being charged for non-privileged cattle of the district, half those rates for privileged cattle, and full special rates for foreign cattle. In backward parts half these rates were charged. In this district the payment of a single fee entitles the holder to graze his cattle in any part of the district open to grazing. Nearly 1,800 Toda buffaloes were allowed to graze in the reserves free. The Conservator questions this policy as Todas have special pattas set apart for their buffaloes. In *North Coimbatore* the decrease of Rs. 13,662 represents almost exactly the difference between returns for twelve as against fifteen months. Practically there is no attempt at regulating the grazing in this district. In *South Coimbatore* the falling off in revenue is explained by the statement that certain overgrazed areas were closed. The Conservator remarks that this hardly explains it, as only 58 square miles out of 591 were closed. The Board observes, however, that the overgrazed areas which have been closed were those which immediately adjoined and many owners who will make use of grazing lands close at hand will not send their

cattle to distant forests. It is said that full rates were charged, and that the owners of every holding of 10 acres or less were allowed to graze three animals at half rates. There was a nett decrease in the returns of Rs. 8,339, compared with those of the previous fifteen months.

The difficulty of distinguishing between agricultural and non-agricultural cattle is experienced in almost every district. The distinction was not made in the Northern Circle and is but imperfectly carried out in the districts of the Central and Southern Circles, in which it is said to be in force. The further information called for by Government on the Board's suggestion to adopt a uniform fee for both descriptions of cattle will shortly be submitted to Government.

41. *Grass-cutting and hay-making.*—Bellary was the only district in the Northern Circle where grass-cutting was attempted. 150,000 pounds of grass were collected and supplied to the Commissariat Department. The cost was Rs. 833–8–6 and the receipts Rs. 1,200. The grass was not real hay. The attempt at regular hay-making last year was unsuccessful. Part of the difficulty is that it is extremely difficult to separate all the débris of last year's grass from hay made in a reserve where fire is rigidly excluded, and complaints were made on this score.

No experiments were made in the Central Circle during the year. The stock in Cuddapah was sold off, the result being a considerable loss.

In the Southern Circle the only district from which any record under this head is given is Tinnevelly, where permits for grass at three and six pies a head-load were issued in a few places where the right to collect minor produce could not be sold. The right to cut grass in a few of the plain forests was leased as usual. It is said that the right to cut grass is included in minor produce contracts and that large quantities of grass are cut in the ghât forests. A small attempt at departmental hay-making resulted in a financial loss.

(e) *Natural reproduction.*

42. The natural reproduction of teak is reported to be unsatisfactory in the Anamalais of *South Coimbatore*, in the Mudumalai and Beni forests of the *Nilgiri* district, at the foot of the hills, and in North Wynaad in the *North Malabar* district. The Board deputed the Senior Conservator, Mr. Popert, to make a special report on the subject, and the question need not be discussed pending this report. Some experiments were made in the Anamalais, and it was found that teak had germinated readily in areas covered with an undergrowth of young bamboo, but the experiments were not carried on over areas covered by dense grass, which is the greatest difficulty to be contended against. It is an undoubted fact that in these forests at present there is a marked absence of teak in the pole stage. The natural reproduction of Sal (*Shorea robusta*) in *Ganjam* was excellent. In the closed areas of *Vizagapatam*, general reproduction continues to be very good; also in parts of *Gódávari*, though parts of this district show very unsatisfactory results, owing to excessive grazing and fires. Coppice is coming on well in *Kurnool* and in the *Acacia Arabica* working circle in *Kistna*. Bamboos have seeded nearly everywhere and the reproduction is good. The natural reproduction of red sanders (*Pterocarpus santalinus*) from seed in *Cuddapah* is unsatisfactory, but it comes up well from coppice. The reproduction of *Hardwickia binata* is still rather doubtful in *Anantapur*. It is reported to be improving in parts of *Cuddapah*, and experiments are being made in *Kistna* to try to get reproduction both from seed and coppice. In *Salem*, reproduction from seed of the forests generally is said to be not very satisfactory, except in specially protected reserves. Coppice growth in most districts in the Central Circle and Southern Circle is fair. The growth in the Eucalyptus plantations on the *Nilgiris* is as rapid as ever. Experiments have been made in *South Canara* which seem to show that the reproduction of *Acacia catechu* (or sundra) which is here a valuable tree is only a question of protection from cattle.

Fuller notes are given in the Appendix G.

(f) *Artificial reproduction.*

43. The statement below shows the area under plantations, topes, and cultural operations, with the cost during the period under report compared with the figures of the preceding year:—

## Abstract H.—Plantations, topes and cultural operations in other areas.

| — | Plantations. | | | | | | | | Topes. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Up to 1892–93. | | Added during | | | | Total. | | Up to 1892–93. | | Added during | |
| | | | 1892–93. | | 1893–94. | | | | | | 1892–93. | |
| | Area in acres. | Cost. | Area in acres. | Cost of areas in columns 2 and 4. | Area in acres. | Cost of areas in columns 2, 4 and 6. | Area in acres. | Cost. | Area in acres. | Cost. | Area in acres. | Cost of areas in columns 10 and 12. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Northern Circel .. .. .. | 934<br>(a) + 3<br>(b) — 74 | 36,794<br>(a)+ 272<br>(b)—5,793 | 2 | 3,008 | 114 | 6,338 | 979 | 40,619 | 3,517 | 19,520 | 25 | 1,902 |
| Central ,, .. .. .. | 13,426<br>(c) — 43 | 6,73,685 | 3 | 26,749 | 102 | 18,807 | 13,488 | 7,19,241 | 10,486 | 3,52,348 | — 170 | 6,577 |
| Southern ,, .. .. .. | 6,399 | 4,62,830 | 224 | 18,377 | 209 | 13,619 | 6,832 | 4,94,826 | 14,522 | 61,564 | 12 | 327 |
| Total .. | 20,645 | 11,67,786 | 229 | 48,134 | 425 | 38,764 | 21,299 | 12,54,686 | 28,525 | 4,33,432 | — 133 | 8,806 |

| — | Topes—*cont.* | | | | Other areas. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Added during | | Total. | | Up to 1892–93. | | Added during | | | | Total | |
| | 1893–94. | | | | | | 1892–93. | | 1893–94. | | | |
| | Area in acres. | Cost of areas in columns 10, 12 and 14. | Area in acres. | Cost. | Area in acres. | Cost. | Area in acres. | Cost of areas in columns 18 and 20. | Area in acres. | Cost of areas in columns 18, 20 and 22. | Area in acres. | Cost. |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Northern Circle .. .. .. | .. | 1,302 | 3,542 | 22,724 | 422<br>(a) — 3 | 5,988<br>(a)— 272<br>(b)+ 5,793 | 37 | 1,872 | 261 | 1,679 | 717 | 15,060 |
| Central ,, .. .. .. | (d)— 1,228 | 4,179 | 9,088 | 3,63,104 | 3,831<br>mls. 100 | 42,865 | 42 | 2,450 | 133 | 1,392 | 4,006<br>mls. 100 | 46,707 |
| Southern ,, .. .. .. | 2 | 306 | 14,536 | 62,197 | 2,172 | 14,954 | 312 | 3,535 | 431 | 1,742 | 2,915 | 20,231 |
| Total .. | — 1,226 | 5,787 | 27,166 | 4,48,025 | 6,422<br>mls. 100 | 69,328 | 391 | 7,857 | 825 | 4,813 | 7,638<br>mls. 100 | 81,998 |

(a) Shown under cultural operations in the return for 1892–93 by mistake.
(b) Abandoned as a plantation and shown under cultural operations.
(c) By rectification of area.
(d) Transferred to departments which exercise real control over these areas.

44. *Plantations.*—The additions during the year in Casuarina plantations were 65 acres in *Ganjám*, at a cost of Rs. 57 an acre. The work was thorough and there were few casualties. There were 8 acres added in *Gódávari*, and 41 acres in *Kistna*. In this latter district the circumstances were different, the work being done to a considerable extent by gardeners sanctioned under the temporary establishment, whose work was concentrated on these planting operations, as it was considered that the scattered attempts made before were unsatisfactory. In *Gódávari*, 17,300 trees cost Rs. 1,080, which gives an average of sixteen trees per rupee. In *Ganjám*, 63,464 trees cost Rs. 3,717, which gives an average of seventeen trees per rupee.

In the *South Arcot* district it is said that 84 acres were planted up with Casuarina at a cost of Rs. 14 an acre. There must be some mistake in these figures, or watering must have been almost entirely dispensed with. In the *Tanjore* district, 48 acres were planted with casuarinas. There was a very large expenditure in *North Arcot* on mixed plantations. The returns are very difficult to check, and it would seem from the results reported that planting is not quite systematic here. It is hard to pick out the details for plantations proper from cultural operations, the nature of which is more experimental. In *Trichinopoly* in the plantations along the Cauvery the stock is composed of *Acacia Arabica*, *Casuarina*, *Cassia floribunda*, and *Inga dulcis*, with a few scattered Tamarinds, *Albizzia Lebbek* and *Melia Indica*. It is found that not one-fifth of the Casuarina and Cassia trees supposed to have been planted since these lands were taken up in 1871–72 now exist, and *Inga dulcis* is rapidly killing out the Casuarina. In future it is thought that no planting will be necessary, as the areas felled become restocked naturally with *Inga dulcis*, *Cassia* and *Babul*.

An area of 102 acres was added to the Casuarina plantation, at *Nellore* at an average cost of Rs. 30½ an acre. This average seems very low, but efforts were made to keep down the charges for watering (the main expense) as low as possible, and plants were watered only once in two days in high places, and once in three days in low places. If this should prove sufficient the cost of Casuarina planting will be materially reduced. As Nellore is a district in which Casuarina has been planted more extensively than in any other, it is useful to gather a few hints from experience. Under the unscientific planting of the Jungle conservancy days the plantations were a financial failure, so far as can be calculated. They seem now to be a success. The District Forest-officer has calculated from statistics that the average cost per acre under the Jungle conservancy was Rs. 109, and since 1883 when Jungle conservancy was merged with forests the average cost per acre has been Rs. 37. The returns for an expenditure of Rs. 1,77,060 prior to 1883 are calculated to be Rs. 1,70,536, or a loss of Rs. 6,524; and the returns on an expenditure of Rs .17,995 since 1883 are calculated at Rs. 28,675, or a profit of Rs. 10,680.

Twenty acres of Eucalyptus were planted on the Palnis in *Madura*; and seventy acres were added to the plantations on the *Nilgiris*. One hundred and twenty acres of fresh planting was added to the Nilambúr teak plantations.

Great care should be taken in each district to scrutinize these lists, and see that the areas felled over are separate from the areas under wood, else statistics get utterly confused. The numbers of trees planted should also invariably be given by the rangers, as comparisons by acreage alone are often misleading. The cost of fresh planting should be separated from upkeep of former years' planting.

45. *Cultural operations.*—The areas entered in the form No. 60 comprise an area of 2½ acres in Ganjám, of 258 acres in Bellary, and 133 acres in Nellore. Palmyra seeds were sown in *Ganjám*, wild date seeds in *Bellary*, and broadcast sowing of various seeds was made in *Nellore*. In the Southern Circle various experiments were made over 421 acres in *Tinnevelly*, chiefly by broad cast sowing; and on the *Nilgiris* ten acres were planted up under the Badaga plantation scheme already sanctioned. There were various attempts made in other districts, which seem to have been considered more as experiments as they are not entered in the form.

Further particulars under these heads and on experiments and exotics are given in the Appendix G.

46. *Topes.*—The number of topes is given in form 61. A few topes were handed over to the Revenue Department during the year. This list is still not quite reliable for all districts. Many of the so-called topes are mere waste land, some are being merged into reserved forests. In many districts serious efforts have been made, or are being made, to have these lists definitely settled, but the matter should be finally taken up in all.

(g) *Communications and Buildings.*

47. The following statement shows the outlay on communications and buildings and other works for two years' reports :—

| | Fifteen months ending June 1893. | 1893-94. |
|---|---|---|
| | Rs. | Rs. |
| Roads and bridges ... ... ... ... ... | 37,286 | 41,421 |
| Buildings ... ... ... ... ... ... | 59,395 | 34,229 |
| Other works ... ... ... ... ... ... | 3,625 | 3,604 |

Expenditure on roads was in excess of that for the previous fifteen months, while that on buildings was considerably less. This latter decrease was due partly to an endeavour to reduce the cost of buildings generally, partly to delay in some works owing to a discussion about introducing more method into the form of camps in general.

A list of the chief roads and buildings is given in the Appendix H.

In the Northern Circle a sum of Rs. 6,272 was spent on roads, of which the larger part was spent in Kistna, the next largest expenditure being in Ganjám. In *Kistna* some very useful roads were made, and it is hoped that the road made to the Kurnool frontier may be carried through the forest to join a main road, for roads are much wanted for general use in this part. In *Ganjám* a road was finished, and some 24½ miles of inspection paths were made in the sál forests. These are made narrow, but as straight as possible, and all roots are extracted. These paths are extremely useful, and were very well planned and executed by the District Forest-officer. In *Anantapur* 2 miles of inspection roads were made and in *Bellary* 5 miles of bridle roads.

In the Central Circle a sum of Rs. 8,506 was spent on roads, the chief expenditure being in North Arcot, the next being Chingleput and Salem. In *North Arcot* 7 miles of new roads were constructed, in *Chingleput* 3¼ miles, while in *Salem* the expenditure was chiefly on special repairs on two roads for railway fuel-supply.

In the Southern Circle there was a large expenditure of Rs. 26,643. There was a very large expenditure in *Tinnevelly* both on construction and repairs, but distances are not clearly given. The Conservator, Southern Circle, remarks that with the present small establishment better results could have been secured if the work had proceeded more slowly. The large expenditure in *North Coimbatore* was spent chiefly on the repairs of some large roads, which were originally made and kept up by other departments. It would be very bad policy to allow these expensive roads to go altogether to ruin. The expenditure in *South Coimbatore* was in connection with the timber slip and transport roads for heavy timber. The slip was completed during the year, the bottom being paved with poles placed *longitudinally*. It is 800 yards in length. The District Forest-officer calculates on a considerable saving in the cost of transport. In *North Malabar* extremely good work was done, some 39 miles of new traces were made at an average of Rs. 56 a mile. In *South Malabar* the work consisted chiefly of repairs. In *Madura* several inspection paths, a road, and a preliminary trace were made during the year. On the *Nilgiris* the expenditure was on repairs and metalling.

The expenditure on buildings in the Northern Circle was largest in Kistna and Kurnool, and fairly evenly distributed among the other districts. The chief new works were four rest-houses, four range camps, one range office enlarged, ten cheap inspection sheds, one range-house.

In the Central Circle the chief expenditure was in North Arcot, Salem and South Arcot. The chief work was the building of a substantial house, substantial repairs to a range office, and the extension of three forest houses.

In the Southern Circle the chief expenditure was in Madura, Tinnevelly, North and South Coimbatore, South Malabar and the Nilgiris. The chief new works were the building of one rest-house, of four serambis on posts, of six guards' houses, a sandalwood shed and store, four range offices, and some guards' lines.

48. *Tramways.*—The statement in Appendix I gives the results of the working of tramways.

The tramway from *North Arcot* was sent to *Nellore;* $1\frac{1}{4}$ miles was sent to Sríharikotta fuel circle, and $1\frac{1}{4}$ miles to the casuarina plantations. This additional plant did not reach *Nellore* till January 1894, and was not put up till some months afterwards, so that although full debit was taken, the stock was not utilized to its full extent during the year. The wagons received from *North Arcot* are much worn, and new wheels will probably be required, which will deduct from the profit, but the District officers anticipate a profit on Sríharikóta working next year with the full plant, and hope that this profit will eventually cover up the deficit. It is calculated that the nett loss in Sríharikóta up to the end of the year under report is Rs. 1,567, and that the nett gain in the casuarina plantations is Rs. 14,825.

The tramway in *Cuddapah* is calculated to have been worked at a loss of Rs. 539 during the year, because no engine fuel was taken by the railway, but a doubt is expressed in the report if there will be sufficient material or a sufficiently steady demand to make a tramway pay here.

The total loss on the *South Coimbatore* tramway up to date is calculated at Rs. 19,025, the loss last year being much lighter than usual, because more material was extracted.

## CHAPTER V.

### YIELD AND WORKING.

49. The total outturn of the year in timber and other produce compares with that of the previous year as follows:—

ABSTRACT I.—Comparative yield as per Forms Nos. 69, 72-A and 72-B.

| | Timber (in cubic feet) including sandalwood. | | Fuel (in cubic feet). | | Bamboos (in number). | | Minor produce (gross value in rupees). | |
|---|---|---|---|---|---|---|---|---|
| | 1892–93 (1st April 1892 to 30th June 1893). | 1893–94 (1st July 1893 to 30th June 1894). | 1892–93 (1st April 1892 to 30th June 1893). | 1893–94 (1st July 1893 to 30th June 1894). | 1892–93 (1st April 1892 to 30th June 1893). | 1893–94 (1st July 1893 to 30th June 1894). | 1892–93 (1st April 1892 to 30th June 1893). | 1893–94 (1st July 1893 to 30th June 1894). |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| By Government Agency .. | 292,300 | (*a*) 291,554 | 2,038,099 | (*b*) 3,122,250 | 34,039 | (*c*) 35,245 | 48,951 | 23,773 |
| By purchasers (including confiscations) .. .. | 2,634,450 | 2,734,778 | 10,098,922 | 9,061,738 | 20,652,606 | 25,198,215 | 7,54,097 | (*d*) 7,65,430 |
| Free grants .. .. .. | 39,806 | 46,164 | 1,543 | 1,008 | 92,748 | 70,801 | 207 | 1,853 |
| Total .. | 2,966,556 | 3,072,496 | 12,138,565 | 12,184,996 | 20,779,393 | 25,304,261 | 8,03,255 | 7,91,056 |
| Increase or decrease in 1893–94 as compared with 1892–93 .. .. .. | .. | + 105,940 | .. | + 46,431 | .. | +4,524,868 | .. | — 12,199 |
| Percentage of increase or decrease over the previous year's total .. .. | .. | + 3·6 | .. | + ·3 | .. | + 21·7 | .. | — 1·5 |

(*a*) Includes 122 cubic feet, being excess found on remeasurement of timber collected and taken to depôt in previous years as per form No. 70.
(*b*) Includes 19,905 cubic feet, being excess found on remeasurement as per form No. 70.
(*c*) Includes five bamboos, being excess found on recounting as per form No. 70.
(*d*) Includes grazing fees.

NOTE.—The value of minor produce given above is that of the quantity *disposed of*, not that of the quantity *collected*, as the value of the latter is not known.

It is difficult to compare the results as the figures for 1892–93 appertain to a period covering 15 months, while those for the year under review are for 12 months. The differences will, however, be explained below under the several heads making due allowance for the difference in the periods.

The average approximate yield during the year per square mile of forest area under immediate control amounted to 847 cubic feet of timber and fuel, 1,405 bamboos and Rs. 44 worth of minor produce as against 879 cubic feet, 1,209 bamboos and Rs. 47, respectively, in the preceding year.

*Section I.—Departmental operations.*

50. The subjoined table shows the number of trees felled (form No. 68) and those converted into logs or scantlings during the year as compared with the outturn in the preceding year :—

| Year. | Balance on hand at the beginning of the period under report. | Number of trees felled during the period under report. | Total. | Converted into logs, &c., during the period under report. | Balance on hand at the end of the period under report. |
|---|---|---|---|---|---|
| 1892–93 (fifteen months) .. .. | 1,208 | 58,002 | 59,210 | 58,199<br>(a) + 846 | (a) 165 |
| 1893–94 (twelve months) .. .. | 165 | 67,723 | 67,888 | 67,673 | 215 |

(a) The figure 1,011 trees shown as balance at the end of the year in the return for 1892–93 was an error, as, out of this number, 846 trees were converted into logs during the year. The balance was therefore only 165 trees.

The above statement reveals that the number of trees felled during the year was considerably larger than in 1892–93, notwithstanding the fact that the operations of the latter year comprised a period of fifteen months. There was a falling off in the number felled in Gódávari, Kistna, Bellary and North Arcot. In *Gódávari* the decrease is due to departmental cutting having been stopped in favour of the contract system, in *Kistna* to the introduction of a controlled seigniorage system, in Bellary there was a decrease because sanction for the working-plan in Sandúr arrived late in the season, and in *North Arcot* because many coupes were felled by contract. This decrease is more than counterbalanced by the increase in Nellore and Nilgiris. No explanation has been afforded for the very large number (40,666) of trees felled in the former district; but it is known that most of these trees were small, for the coupe system yielded very low returns, and there were a large number of casualties among casuarinas. The increase in the *Nilgiris* is mainly accounted for by the felling of a large number of blue gum trees under the prescribed working-plans and by the yield from a number of windfalls.

51. The following abstract compares the produce collected and disposed of by the department with that of the previous year:—

ABSTRACT J.—Produce collected and disposed of (Forms Nos. 69, 70 and 71).

| Produce collected. | During 1892–93 (from 1st April 1892 to 30th June 1893). | | | During 1893–94 (from 1st July 1893 to 30th June 1894). | | |
|---|---|---|---|---|---|---|
| | Quantity. | Cost. | Average. | Quantity. | Cost. | Average. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | RS. | RS. A. P. | | RS. | RS. A. P. |
| Timber, in cubic feet .. | 288,744 | 62,802 | 0 3 5 | (a) 287,940 | 71,512 | 0 4 0 |
| Fuel, in cubic feet .. | 2,038,099 | 84,900 | 0 0 8 | (b) 3,122,250 | 89,620 | 0 0 5 |
| Bamboos, in number .. | 34,039 | 1,492 | 0 0 8 | (c) 35,245 | 367 | 0 0 2 |
| Sandalwood, in cubic feet .. .. .. | 3,556 | 3,697 | 1 0 8 | 3,614 | 4,192 | 1 2 7 |
| Minor produce, in maunds of 25 lbs. .. | 38,430 | 29,088 | 0 12 1 | 24,582 | 11,967 | 0 7 9 |
| Total .. | .. | 1,81,979 | .. | .. | 1,77,658 | .. |

(a) Includes 122 cubic feet found in excess in depôts as per form No. 70.
(b) Do. 19,905 do. do. do. do.
(c) Do. 5 bamboos do. do. do.

| Produce disposed of. | During 1892-93 (from 1st April 1892 to 30th June 1893). | | | During 1893-94 (from 1st July 1893 to 30th June 1894). | | | Stock on 1st July 1893. | Stock on 30th June 1894. |
|---|---|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | (*d*) Quantity | Value. | Average. | | |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | |
| Timber, in cubic feet .. | 393,490 | 1,79,592 | 0 7 4 | 291,008 | 1,95,164 | 0 10 9 | 158,413<br>(*e*)— 566<br>(*f*)— 7 | 154,772 |
| Fuel, in cubic feet .. | 2,368,992 | 1,35,995 | 0 0 11 | 2,578,316 | 1,44,644 | 0 0 11 | 562,862<br>(*e*) + 566<br>(*g*) + 11,368<br>(*f*)— 2,425 | 1,116,305 |
| Bamboos, in number .. | 58,859 | 4,144 | 0 1 2 | 34,245 | 2,122 | 0 1 0 | 6,694 | 7,694 |
| Sandalwood, in cubic feet .. .. .. | 4,140 | 40,100 | 9 10 11 | 2,379 | 23,548 | 9 14 4 | 1,244 | 2,479 |
| Minor produce, in maunds of 25 lbs. .. | 152,082 | 48,951 | 0 5 2 | 56,368 | 23,773 | 0 6 9 | 44,269<br>(*h*) + 2,496 | 14,979 |
| Total .. | .. | 4,08,782 | .. | .. | 3,89,251 | .. | .. | .. |

(*d*) Includes that used departmentally, written off, &c., as per forms 69 and 70.

(*e*) 566 cubic feet was wrongly included under *timber* during 1892-93 instead of under *fuel*.

(*f*) Shown in excess during 1892-93 by wrong measurement.

(*g*) 11,368 cubic feet was omitted to be included in the return for 1892-93.

(*h*) 2,496 maunds do. do. do. do.

Considering the operations of the department as a whole, the quantity of timber and fuel together and the number of bamboos *collected* are in excess of the collections of the year preceding. But taking the districts individually there is a large decrease under timber collected in Gódávari, Kistna, North Arcot, South Malabar and South Canara, which is more than counterbalanced by the increase in Ganjám, Kurnool, Cuddapah, South Arcot, Madura, Tinnevelly, South Coimbatore and North Malabar. The decrease in *Gódávari* is due to the adoption of the contract system for the cutting of timber and in *Kistna* and *North Arcot* to restricted fellings owing to want of demand. The stoppage of departmental cutting of babul in the sample areas of the Guntúr working Circle in *Kistna* also contributed to the decrease in that district. The decrease in *South Malabar* was because there were large stocks on hand from the previous year; that in *South Canara* is due to the failure on the part of Uppinangadi timber contractor to bring down more logs, and also to the working area in Udipi not having been fully worked out, as the scheme was not sanctioned till late in the year and the locality was unhealthy. The increase in *Ganjám* is practically no increase, as all the fellings of 1892-93 were not included in that year's return owing to confusion in the district timber accounts. In *Kurnool* the increase is due to development of departmental work in Nallamalais. In *Cuddapah* there was a large extraction of red-wood roots and stumps for which the demand was brisk, and in *South Arcot* there was an unexpected supply of casuarina posts to Government Telegraph departments. The increase in the other districts which are comprised in the Southern Circle has not been explained.

As regards the quantity of fuel collected there is a very large falling off in Gódávari, Cuddapah and South Canara. This decrease is more than compensated for by the large increase in most of the other districts, *e.g.*, Kurnool, North Arcot, South Arcot, Trichinopoly, Salem, Madura, South Coimbatore and Nilgiris. The decrease in *Gódávari* is ascribed to the change from departmental working to the contract system. In *Cuddapah* the only firewood cut departmentally was that for supply to the district jail, and the decrease in *South Canara* has not been accounted for. The increase in *Kurnool* is ascribed to the development of departmental work in Nallamalais. In *North Arcot* there were extensive improvement fellings in the Napier and Ambur fuel reserves, and *in South Arcot* and *Salem* there was larger demand for fuel for the railway and for the cotton mills in Pondicherry. The increase in *Trichinopoly* is only nominal, as most of it represents the previous years' fellings which were not hitherto brought to account, not having been handed over to the Railway Company. The increase in

*Madura* was due to the water-works project in that town, and that in the *Nilgiris* to the reasons already explained under trees felled.

The increase under bamboos occurs chiefly in Madura, South Canara and South Malabar, notably in the last-named district where a large number was required for transport of timber. This increase far out-numbers the decrease which occurs in Kurnool, Cuddapah, North Arcot and South Arcot.

The decrease in the quantity of minor produce collected is due in a great measure to non-collection of grass and refusal on the part of the Chenchus to collect myrabolams for the department in *Kurnool*, to failure of soapnut and nux-vomica crops in *Nellore*, and to the stoppage of experimental collections of grass in *Cuddapah*. With reference to disposals the quantity of timber sold during the year was less than in the previous year. The decrease occurs principally in Ganjám, Gódávari, Cuddapah, North Arcot and Nilgiris. In *Ganjám* and *Gódávari* the adoption of the contract system contributed to the decrease. In *Cuddapah* there was an absence of demand, and in the Nilgiris there was a difficulty in finding good saleable teak. No explanation has been furnished for the decrease in *North Arcot*. There were minor decreases also in a few other districts, but they were counterbalanced by increases elsewhere.

It is observed that the quantity of timber sold during the year under report was less than during the year preceding and yet the amount realized was greater. This is accounted for by the higher rates secured in certain districts.

The quantity of fuel disposed of shows an excess over that of 1892–93. The increase occurred notably in Gódávari, Bellary, Kurnool, Cuddapah, North Arcot, South Arcot, Trichinopoly, Salem, Madura and South Coimbatore. The chief cause contributing to this increase is greater demand in these districts; in *Bellary* large quantities were required in the manufacture of sugar. As regards the disposal of bamboos, the total number disposed of in 1892–93 includes about 23,500 bamboos used either for departmental purposes or written off as useless, while in 1893–94 the number similarly treated is only about 1,000. Deducting these tems from both years' figures, the difference will be found to be very small.

Under disposals of minor produce there was decrease in Kurnool, Cuddapah and South Canara due to causes explained under collection.

The cost of collection under all the heads is less except under timber which is slightly more than in 1892–93. The increased cost rate is due to the difficulty of procuring labour and to the cost of cutting in coupes being greater than in plantations. The rates of prices realised in the case of timber and minor produce are slightly better than in the previous year.

### *Section II.—Removals by purchasers under the permit system.*

52. The following table shows the removals by consumers and purchasers under the permit system during the year as compared with the preceding year :—

ABSTRACT K.—Produce removed by permit-holders on seigniorage or otherwise (Appendix 72-A).

| | During 1892–93 (from 1st April 1892 to 30th June 1893). | | | During 1893–94 (from 1st July 1893 to 30th June 1894). | | |
|---|---|---|---|---|---|---|
| | Quantity. | Amount of sales. | Average. | Quantity. | Amount of sales. | Average. |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. .. .. C. ft. | 1,364,512 | 1,23,528 | 0 1 5 | 1,843,750 | 2,15,256 | 0 1 10 |
| Firewood .. .. .. „ | 2,859,225 | 55,644 | 0 0 3 | 2,618,590 | 55,062 | 0 0 4 |
| Bamboos .. .. .. No. | 11,858,261 | 68,638 | 0 0 1 | 16,747,964 | 89,189 | 0 0 1 |
| Grass and grazing .. .. .. | .. | 68,670 | .. | .. | 96,831 | .. |
| Minor produce .. .. .. | .. | 82,538 | .. | .. | 1,24,427 | .. |
| Total .. | .. | 3,99,018 | .. | .. | 5,80,765 | .. |

Abstract K.—Produce removed by permit-holders on seigniorage or otherwise (Appendix 72-A)—*cont.*

| | During 1892–93 (from 1st April 1892 to 30th June 1893). | | | During 1893–94 (from 1st July 1893 to 30th June 1894). | | |
|---|---|---|---|---|---|---|
| | Quantity. | Amount of sales. | Average. | Quantity. | Amount of sales. | Average. |
| *Central Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. .. .. C. ft. | 976,233 | 96,557 | 0 1 6 | 670,508 | 63,096 | 0 1 6 |
| Firewood .. .. .. „ | 3,681,693 | 1,50,804 | 0 0 8 | 3,382,384 | 1,16,633 | 0 0 6 |
| Bamboos .. .. .. No. | 6,460,979 | 77,824 | 0 0 2 | 7,029,103 | 81,149 | 0 0 2 |
| Grass and grazing .. .. .. | .. | 76,595 | .. | .. | 1,15,283 | .. |
| Minor produce .. .. .. .. | .. | 2,99,925 | .. | .. | 2,79,274 | .. |
| Total .. | .. | 7,01,705 | .. | .. | 655,435 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 250,900 | 45,592 | 0 2 11 | 175,290 | 36,999 | 0 3 5 |
| Firewood .. .. .. „ | 3,517,831 | 91,706 | 0 0 5 | 2,997,942 | 69,772 | 0 0 4 |
| Bamboos .. .. .. No. | 2,291,488 | 25,850 | 0 0 2 | 1,402,531 | 20,845 | 0 0 3 |
| Grass and grazing .. .. .. | .. | 66,677 | .. | .. | 55,142 | .. |
| Minor produce .. .. .. .. | .. | 1,58,830 | .. | .. | 93,597 | .. |
| Total .. | .. | 3,88,655 | .. | .. | 2,76,355 | .. |
| Presidency Total. Timber .. .. C. ft | 2,591,645 | 2,65,677 | 0 1 7 | 2,689,548 | 3,15,351 | 0 1 11 |
| Presidency Total. Firewood .. „ | 10,058,749 | 2,98,154 | 0 0 5 | 8,999,516 | 2,41,467 | 0 0 5 |
| Presidency Total. Bamboos .. No. | 20,610,728 | 1,72,312 | 0 0 1 | 25,179,598 | 1,94,183 | 0 0 1 |
| Presidency Total. Grass and Grazing .. | .. | 2,11,942 | .. | .. | 2,67,256 | .. |
| Presidency Total. Minor produce .. | .. | 5,41,293 | .. | .. | 4,97,293 | .. |
| Grand Total of sales, Rupees .. | .. | 14,89,378 | .. | .. | 15,12,555 | .. |

The total value of sales as compared with that of the previous year shows a net increase of Rs. 23,000 as noted in the margin. Considering that the revenue of the year under report was for twelve months as against fifteen months of the preceding year, it seems at first sight as if the prices realised compared with the outturn of produce were abnormally high, but a large payment in Ganjám for railway sleepers was to a great extent in the nature of an advance. The value of the sales realised under timber, bamboos and grazing and grass shows a large increase, while that under fuel and minor produce shows a decrease. The average rate of sale shows an increase in respect of timber, that for fuel and bamboos remaining the same as for the previous year.

| | Rs. |
|---|---|
| Timber ... ... ... ... | + 49,674 |
| Firewood ... ... ... ... | — 56,687 |
| Bamboos ... ... ... ... | + 18,871 |
| Grazing and grass ... ... | + 55,314 |
| Minor produce ... ... ... | — 43,995 |
| Total ... | + 23,000 |

The increase in the value of timber sold occurred principally in Ganjám, Vizagapatam, Gódávari and Kistna against which there was decrease in the value of the disposals in almost all the other districts, more or less due to the fact that the period under report comprises twelve months against fifteen months in the preceding year. The increase in the districts named was due to better demand by the local public and particularly to the large advance for sleepers for the East Coast Railway in Ganjám.

The general explanation as regards the difference in the period of the two years' operations accounts more or less for the decrease also under firewood. Large decreases however occurring in Gódávari, Cuddapah, Chingleput, North Arcot, South Arcot, Tanjore, Trichinopoly, Tinnevelly, North and South Coimbatore, South Malabar and South Canara, call for explanation. There were also increases in certain other districts, but the differences are small and call for no remark. The decrease in *Gódávari* is due partly to the stoppage of cutting of green fuel in some reserves and partly to competition from private forests, while in *Chingleput*, *North Arcot*, *Tanjore* and *South Canara*, it is due to the crediting of the revenue from poramboke and other unreserved lands to Land Revenue miscellaneous with reference to orders embodied in Board's Proceedings, Forest No. 638, dated 31st August 1893. In *South Arcot* there was difficulty in getting proper contractors to fell coupes, and the Collectors of *Cuddapah*, *Trichinopoly*, *Tinnevelly* and *North* and *South Coimbatore* have not explained the decrease in these districts. The decrease in *South Malabar* is due to the small quantity of materials yielded by the sub-compartment in the Walayar reserve compared with the yield of former years, the coupes being situated on hilly ground.

The Conservator, Southern Circle, suggests that all removals by contractors from working circles under the particular supervision of the department should more properly be credited to removals by Government Agency. This view does not seem quite tenable. The main question is whether the cost of felling is debited against the department or not. If a contractor is employed and the department pays for the felling the contractor is simply in the position of a member of the temporary establishment, and the operations would come under I (*a*). If a contractor makes the felling at his own cost there is no corresponding debit for the operations against the department, and they should come under II (*a*).

Under bamboos the principal districts which contributed towards the increase are Gódávari and North Arcot. In the former district the increase was chiefly due to the abnormal demand for props for sugarcane plantations and for export to other localities, and in the latter district to the better price offered.

The increase under grazing which is noticeable chiefly in the districts of Kistna, North Arcot, South Arcot and South Canara is explained in chapter IV of the report.

Under minor produce the decrease occurs in Gódávari, Chingleput, North and South Arcot, Salem, Madura, North and South Coimbatore, Nilgiris and North Malabar. The decrease in *Gódávari*, *Chingleput* and *South Arcot* is due to transfer of certain items of revenue to the Land Revenue Department; in *North Arcot* to the non-realisation of a fair price for manure leaves and other minor produce owing to slack demand for want of timely rains; in *North Coimbatore* to the crediting in the accounts of 1892–93, a large sum appertaining to the accounts of 1893–94; and in *Nilgiris* to the realisation during 1892–93 of two years' fees in advance. The Collectors of *Salem*, *Madura*, *South Coimbatore* and *North Malabar* have furnished no explanation for the variations in their respective districts.

53. The subjoined statement shows the comparative cost of departmental and private working and the net profit derived from each class of produce under each system :—

| Items. | Measure. | Quantity collected (Forms 69, 70 and 72). | Amount of sale-proceeds (Forms 71 and 72). | Add or deduct increase or decrease in value of stock in hand. | Net financial result (column 4 + or − column 5). |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Departmental Working— | | | Rs. | Rs. | Rs. |
| Timber | Cubic feet. | 287,940 | 1,95,164 | — 15,782 | 1,79,382 |
| Fuel | Do. | 3,122,250 | 1,44,644 | — 1,461 | 1,43,183 |
| Bamboos | Number. | 35,245 | 2,122 | + 161 | 2,283 |
| Sandalwood | Cubic feet. | 3,614 | 23,548 | + 8,142 | 26,690 |
| Minor produce | Maunds. | 24,582 | 23,773 | — 102 | 23,671 |
| Private Working— | | | | | |
| Timber | Cubic feet. | 2,689,548 | 3,15,351 | .. | 3,15,351 |
| Fuel | Do. | 8,999,516 | 2,41,467 | .. | 2,41,467 |
| Bamboos | Number. | 25,179,598 | 1,91,183 | .. | 1,91,183 |
| Grazing | Not known. | .. | 2,67,256 | .. | 2,67,256 |
| Minor produce | Do. | .. | 4,97,298 | .. | 4,97,298 |

| Items. | Charges (form 64). | | | Net profit or loss (column 6 — column 9). | Rate of net profit (column 10÷column 3) per measure in column 2. |
|---|---|---|---|---|---|
| | A. Conservancy and Works. | B. Establishment and Contingencies. | Total. | | |
| | 7 | 8 | 9 | 10 | 11 |
| Departmental Working— | Rs. | Rs. | Rs. | Rs. | Rs. A. P. |
| Timber | 71,512 | 63,365 | 1,34,877 | + 44,505 | + 0 2 5 |
| Fuel | 89,620 | 79,410 | 1,69,030 | — 25,847 | — 0 0 2 |
| Bamboos | 367 | 325 | 692 | + 1,591 | + 0 0 9 |
| Sandalwood | 4,192 | 3,714 | 7,906 | + 18,784 | + 5 3 2 |
| Minor produce | 11,967 | 10,604 | 22,571 | + 1,100 | + 0 0 9 |
| Private Working— | | | | | |
| Timber | 16,137 | 32,820 | 48,957 | + 2,66,394 | + 0 1 7 |
| Fuel | 12,357 | 25,131 | 37,488 | + 2,03,979 | + 0 0 4 |
| Bamboos | 9,783 | 19,897 | 29,680 | + 1,61,503 | + 0 0 1 |
| Grazing | 13,676 | 27,814 | 41,490 | + 2,25,7[illegible] | .. |
| Minor produce | 25,448 | 51,756 | 77,204 | + 4,20,094 | .. |

Note.—A sum of Rs. 57,000, being the cost of Special Forest Settlement-officers and their establishments including their travelling allowance, &c., and the pay and allowances of Mr. R. C. C. Carr, I.C.S., for the three months he was on special duty in connection with the revision of the Forest Code, has been deducted from the total charges under B. Establishment, as per Form No. 64 and the balance has been distributed proportionately on the lines followed in the previous year's report.

From the above it will be seen that the profit under departmental working in respect of timber and bamboos is much greater than that obtained for removals by private agency and the profit under private agency has to be still further discounted in consideration of the fact that a large part of the revenue from Ganjám was an advance. Under fuel, departmental working has resulted in a loss, while private working showed a profit. With reference to the loss under departmental working of fuel, the Board observes that this cannot in some cases be avoided as matters now stand. Careful felling of blocks which have hitherto been badly treated means improved growth hereafter and it is only in a few localities that contractors are to be found who can be relied on to follow the departmental instructions as regards felling. If rules are rigidly enforced the work often comes to a stand-still until taken in hand departmentally.

54. *Confiscated Produce.*—The sales of confiscated produce during the year under report as compared with those of the previous year are shown in the subjoined table :—

ABSTRACT L.—Confiscation.

| | During 1892-93 (from 1st April 1892 to 30th June 1893). | | | During 1893-94 (from 1st July 1893 to 30th June 1894). | | |
|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | Quantity. | Value. | Average. |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. .. C. ft. | 26,869 | 5,922 | 0 3 6 | 15,756 | 6,077 | 0 6 2 |
| Firewood .. .. .. ,, | 9,804 | 639 | 0 1 1 | 31,643 | 787 | 0 0 5 |
| Bamboos .. .. .. No. | 5,909 | 43 | 0 0 1 | 10,531 | 55 | 0 0 1 |
| Minor produce .. Money value. | .. | 320 | .. | .. | 123 | .. |
| Total .. | .. | 6,924 | .. | .. | 7,042 | .. |
| *Central Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 7,946 | 2,835 | 0 5 9 | 6,937 | 2,178 | 0 5 0 |
| Firewood .. .. .. ,, | 22,388 | 642 | 0 0 6 | 13,772 | 888 | 0 1 0 |
| Bamboos .. .. .. No. | 26,355 | 52 | 0 0 0½ | 5,662 | 85 | 0 0 3 |
| Minor produce Money value. | .. | 423 | .. | .. | 245 | .. |
| Total .. | .. | 3,952 | .. | .. | 3,396 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 7,990 | 989 | 0 2 0 | 22,537 | 2,662 | 0 1 11 |
| Firewood .. .. .. ,, | 7,982 | 318 | 0 0 8 | 16,807 | 265 | 0 0 3 |
| Bamboos .. .. .. No. | 9,614 | 103 | 0 0 2 | 2,424 | 34 | 0 0 3 |
| Minor produce .. Money value. | .. | 119 | .. | .. | 508 | .. |
| Total .. | .. | 1,529 | .. | .. | 3,469 | .. |
| *Presidency Total.* | | | | | | |
| Timber .. .. .. C. ft. | 42,805 | 9,746 | 0 3 8 | 45,230 | 10,917 | 0 3 10 |
| Firewood .. .. .. ,, | 40,174 | 1,599 | 0 0 8 | 62,222 | 1,940 | 0 0 6 |
| Bamboos .. .. .. No. | 41,878 | 198 | 0 0 1 | 18,617 | 174 | 0 0 2 |
| Minor produce Money value. | .. | 862 | .. | .. | 876 | .. |
| Grand Total .. | .. | 12,405 | .. | .. | 13,907 | .. |

The total net realisation of revenue under this head shows an increase of Rs. 1,502 which is noticeable chiefly in the districts of Kistna, Kurnool, Nellore, South Arcot, Tanjore, Nilgiris and South Malabar. The increase being small calls for no explanation.

## *Section III.—Free grants of Forest Produce.*

55. The following statement exhibits the quantities of timber and other produce removed on free permits during the year under review :—

ABSTRACT M.—Free grants.

| Districts. | Timber. | Firewood. | Bamboos. | Minor produce. | Total money value. |
|---|---|---|---|---|---|
| *Northern Circle.* | C. FT. | C. FT. | NO. | Rs. | Rs. |
| Vizagapatam .. .. .. .. .. .. | 3,920 | .. | 19,600 | .. | 318 |
| Gódávari .. .. .. .. .. .. | 200 | .. | 2,000 | .. | 25 |
| Kistna .. .. .. .. .. .. .. | 900 | .. | .. | 67 | 143 |
| Bellary .. .. .. .. .. .. .. | .. | .. | .. | 1,550 | 1,550 |
| Kurnool .. .. .. .. .. .. .. | 16,820 | .. | 23,600 | 124 | 1,083 |
| Total .. | 21,840 | .. | 45,200 | 1,741 | 3,119 |
| Free grants of previous year .. .. .. .. | 18,586 | .. | 53,300 | 176 | 1,890 |

Abstract M.—Free grants—*cont.*

| Districts. | Timber. | Firewood. | Bamboos. | Minor produce. | Total money value. |
|---|---|---|---|---|---|
| *Central Circle.* | C. FT. | C. FT. | NO. | RS. | RS. |
| Nellore .. .. .. .. .. .. .. | 13,823 | .. | .. | 9 | 1,515 |
| Cuddapah .. .. .. .. .. .. | 2,472 | .. | 2,400 | .. | 117 |
| Chingleput .. .. .. .. .. .. | .. | 224 | 625 | 1 | 5 |
| North Arcot .. .. .. .. .. .. | 421 | 2 | .. | 30 | 250 |
| South Arcot .. .. .. .. .. .. | .. | 400 | .. | .. | 25 |
| Trichinopoly .. .. .. .. .. .. | 1,730 | .. | 726 | .. | 193 |
| Salem .. .. .. .. .. .. .. | 2,070 | .. | 13,150 | .. | 401 |
| Total .. | 20,516 | 626 | 16,901 | 40 | 2,506 |
| Free grants of previous year .. .. .. .. | 8,278 | 1,000 | 22,143 | 31 | 1,636 |
| *Southern Circle.* | | | | | |
| Madura .. .. .. .. .. .. .. | 1,010 | .. | .. | 47 | 104 |
| Tinnevelly .. .. .. .. .. .. | 65 | .. | .. | .. | 4 |
| Nilgiris .. .. .. .. .. .. .. | 2,733 | 382 | 7,035 | 25 | 529 |
| North Malabar .. .. .. .. .. .. | .. | .. | 1,665 | .. | 25 |
| Total .. | 3,808 | 382 | 8,700 | 72 | 662 |
| Free grants of previous year .. .. .. .. | 12,942 | 543 | 17,305 | .. | 1,018 |
| Total free grants for 1893–94 .. | 46,164 | 1,008 | 70,801 | 1,853 | 6,287 |
| Total free grants for 1892–93 .. | 39,806 | 1,543 | 92,748 | 207 | 4,544 |

No produce was granted on free permit in the districts of Ganjám, Anantapur, Tanjore, Coimbatore (North and South), Malabar (South) and South Canara. The total results of the other districts show a considerable increase as compared with 1892–93. The noteworthy increases occur in Vizagapatam, Bellary, Kurnool, Nellore and Salem. In *Vizagapatam* an extensive fire burnt more than half the number of the houses in Narasapatam during the year and this necessitated the grant of free permits to the cooly laborers. In *Bellary* free permits were issued to ryots for the removal of tangedu bark for manuring the wet lands. In *Kurnool*, *Nellore* and *Salem* increases are due to the grant of permits for rebuilding burnt houses.

## CHAPTER VI.

### Financial Results.

56. The revenue and expenditure in each circle for the year under report are compared below with the corresponding figures of the twelve preceding months:—

| Items. | Circles. | Forest year, 1892–93 (from 1st July 1892 to 30th June 1893). | Forest year, 1893–94 (from 1st July 1893 to 30th June 1894). |
|---|---|---|---|
| | | RS. | RS. |
| Revenue .. .. .. | Northern .. .. .. | 3,79,720 | 6,04,314 |
| | Central .. .. .. | 7,39,254 | 7,76,451 |
| | Southern .. .. .. | 5,29,706 | 5,62,950 |
| | Total .. | 16,48,680 | 19,43,715 |
| *Expenditure.* | | | |
| A.—Conservancy and Works. | Northern .. .. .. | 1,12,616 | 1,25,402 |
| | Central .. .. .. | 2,38,036 | 2,82,704 |
| | Southern .. .. .. | 3,38,337 | 2,73,634 |
| | Total .. | 6,88,989 | 6,81,740 |
| B.—Establishment .. | Northern .. .. .. | 1,85,592 | 2,01,317 |
| | Central .. .. .. | 2,40,861 | 2,52,572 |
| | Southern .. .. .. | 2,26,134 | 2,32,782 |
| | Total .. | 6,52,587 | 6,86,671 |

| Items. | Circles. | Forest year, 1892–93 (from 1st July 1892 to 30th June 1893). | Forest year, 1893–94 (from 1st July 1893 to 30th June 1894). |
|---|---|---|---|
| | | Rs. | Rs. |
| Total of Expenditure .. | Northern .. .. .. | 2,98,208 | 3,26,719 |
| | Central .. .. .. | 4,78,697 | 5,35,276 |
| | Southern .. .. .. | 5,64,471 | 5,06,416 |
| | Total .. | 13,41,576 | 13,68,411 |
| Net result .. .. | Northern .. .. .. | + 81,512 | + 2,77,595 |
| | Central .. .. .. | + 2,60,357 | + 2,41,175 |
| | Southern .. .. .. | — 34,765 | + 56,534 |
| | Total .. | + 3,07,104 | + 5,75,304 |

NOTE.—For purposes of comparison, the figures of the twelve months ending with the 30th June 1893, were obtained from the Accountant-General's office.

The variations in the figures of the official year 1893–94, compared with those of the preceding official year have been explained in paragraphs 2 and 16 of Board's Proceedings, dated 11th October 1894, No. 632-F. The same reasons apply more or less to the variations in the figures of the corresponding two forest years. The increase in the revenue occurs in all the circles, but chiefly in the Northern Circle. It is mainly due to :—

(1) The large advance received from the East Coast Railway for the supply of sleepers in Ganjám ;

(2) the development of departmental operations in Kurnool and the expansion of the grazing revenue in Kistna ;

(3) the larger demand for fuel from the Madras Railway in Salem and for bamboos for sugar-cane plantations in Gódávari ; and

(4) improved demand and better sales, consequent on a more favorable season than in the preceding year.

Under Expenditure " A—Conservancy and Works " there is an increase in the Northern and Central Circles which is counterbalanced by a large decrease in the Southern Circle. The cost of forest surveys by the Survey of India Party was debited wholly to the Southern Circle in 1892–93, and to the Central Circle in 1893–94. It rose from about Rs. 58,000 in the former to about Rs. 63,000 in the latter year. If this item is left out of account, there is a decrease both in the Central and the Southern Circles. The increase in the Northern Circle is due mainly to the larger outlay on demarcation and on roads and buildings in Kurnool, Kistna and Vizagapatam and to the formation of a large casuarina plantation in Ganjám. The decrease in the other two circles is attributed to smaller outlay on demarcation and buildings generally, to the absence of special charges connected with the payment of compensation in Nellore and North Arcot and to the smaller expenditure under law charges in Tinnevelly.

The increase under " B—Establishments " is mainly due to the return of some of the senior officers from furlough, the promotion of some of the junior officers of the upper controlling staff, the arrival of four new Assistant Conservators from Europe and the payment of exchange compensation allowance.

The net surplus for the year 1893–94 amounted to over $5\frac{3}{4}$ lakhs. The surplus was mainly contributed by the Northern and Central Circles. Looking at individual districts, it is observed that Salem contributed about 17 per cent., Ganjám, Gódávari and Kistna about 13 per cent. each, and North Arcot about 11 per cent. towards the surplus. The small surplus in the Southern Circle was contributed by all the districts except Nilgiris and North Malabar.

## CHAPTER VII.

### General Remarks.

57. *Forest School.*—The number of officers deputed to undergo training in the Dehra Dun Forest School from each circle is shown in the margin. The total number of trained men in the department was 56, thirteen in the Northern, seventeen in the Central and 26 in the Southern Circles. Four of these were Extra Assistant Conservators, three Sub-Assistants, 28 were Rangers and 21 Foresters.

| Circle. | Number deputed in June 1893. | Number deputed in June 1894. |
|---|---|---|
| Northern ... ... | 2 | 1 |
| Central ... ... | 3 | 1 |
| Southern ... ... | 3 | 2 |
| Total ... | 8 | 4 |

58. *Conduct of Establishment.*—In the Northern Circle, the conduct of Forest Rangers and Foresters is reported to have been on the whole good. One Ranger in Vizagapatam was, however, reduced temporarily for disobedience of orders and neglect of duty. In Kurnool, a Ranger was reduced one grade, temporarily, for neglect of duty; the services of a Forester were dispensed with for incompetency, another resigned, while a third forfeited his appointment by overstaying privilege leave.

In the Central Circle, two Foresters were dismissed, three were suspended, three reduced, and one allowed to resign and another to retire. Some Range Clerks and Guards were also suspended, or dismissed or allowed to resign.

In the Southern Circle, only one Ranger was reduced to a Forester on Rs. 40, for general incompetency.

59. *Health of the Establishment.*—The year was very unhealthy in Ganjám and Vizagapatam. In the latter district, the District Forest-officer himself, and two of his Range officers suffered from fever and one Forest Guard succumbed to it. In Gódávari and Kistna, the general health was fairly good. The whole staff suffered from fever in Kurnool and there were several casualties among them. In the Central Circle, the health of the establishment was generally good, though there were some cases of ill-health in Cuddapah and Salem. In the Southern Circle the general health of the establishment was bad in all the districts except Madura and Tinnevelly.

60. *Elephants.*—One of the four elephants in the Northern Circle died of a large abscess, two were sold and arrangements were being made for the sale of the fourth. In the Southern Circle, two elephants were captured and three died during the year, leaving a balance of 43 animals at the end of the year. The majority of these are too young for work and are being trained by Mr. Hadfield at Nilambur.

61. *Service Books.*—Service Books are reported to have been maintained and verified in all the districts except Gódávari, Kurnool, Bellary, Tinnevelly and North Coimbatore. For these districts no information is furnished by the Collectors.

62. *Inventory of valuable stock.*—From the reports of inspections of the District Forest offices made by Conservators, Assistant Inspectors of Local Funds and Treasury Deputy Collectors, it is gathered that the store registers were not properly kept in Nellore and South Canara; that they were not closed and balanced annually in North Arcot and Salem; and that they were correctly maintained in Kistna, Tinnevelly and South Malabar. Information is not available regarding the state of the registers in the other districts. The forms of these registers have been recast in the revised Code awaiting the approval of Government, so as to show readily the stock on hand in each range.

63. *Work done by the superior staff.*—With but few exceptions the officers of the superior staff worked well throughout the year, and even when it was necessary to find fault the errors were not usually due to any want of zeal, while in the case of young officers it was mainly owing to the rapid development of the department having led to their being entrusted with charges which should properly have fallen to men of much longer experience. The most conspicuous piece of work has probably been the scheme for the regulation of grazing in the Kistna district (paragraph 40 *supra*) drawn up by Mr. A. W. Lushington, which it may be observed already gives promises of working satisfactorily in practice besides looking well on paper. There have, however, been many other District Forest-officers who have worked hard and successfully throughout the year in developing, in different ways, the varied resources of their charges.

# APPENDIX A.

## Forest Settlement.

### Particulars of balance of lands under settlement.

| District. | Total number and area of blocks brought under settlement up to end of 1893–94. | | Total number and area of blocks constituted finally as reserved forests up to end of 1893–94. | | Balance at end of 1893–94. | |
|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Northern Circle.* | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| Ganjám .. .. .. .. .. | 69<br>*a*— 1 | 573 | 11 | 133 | 57 | 440 |
| Vizagapatam .. .. .. .. | 24 | 303 | 6 | 29 | 18 | 274 |
| Gódávari .. .. .. .. | 77 | 1,013<br>*c*— 12 | 50 | 498 | 27 | 503 |
| Kistna .. .. .. .. .. | 112 | 766<br>*b* — 9 | 63 | 636<br>*b* — 9 | 49 | 130 |
| Anantapur .. .. .. .. | 64 | 436<br>*b*+ 9<br>*b*— 3 | 45 | 305<br>*b* — 3 | 19 | 140 |
| Bellary .. .. .. .. | 134 | 492<br>*b* — 4<br>*d* — 3 | 67 | 285 | 67 | 200 |
| Kurnool .. .. .. .. | 38 | 1,946<br>*b*+ 8 | 14 | 1,734 | 24 | 220 |
| Total .. | 517 | 5,515 | 256 | 3,608 | 261 | 1,907 |
| *Central Circle.* | | | | | | |
| Nellore .. .. .. .. .. | 140 | 588<br>*b*— 7 | 117 | 343 | 23 | 238 |
| Cuddapah .. .. .. .. | 140 | 2,045<br>*b*+ 10<br>*c* — 11 | 112 | 1,201<br>*b* + 3 | 28 | 840 |
| Chingleput .. .. .. .. | 206 | 224 | 111 | 169 | 95 | 55 |
| North Arcot .. .. .. .. | 134 | 1,070<br>*b*+ 1<br>*c* — 3<br>*d*— 3 | 104 | 939<br>*b*+ 1<br>*d*— 3 | 30 | 128 |
| South Arcot .. .. .. .. | 206 | 848<br>*c* — 4<br>*d*— 1 | 101 | 407 | 105 | 436 |
| Tanjore .. .. .. .. .. | 23<br>*a*— 2 | 19 | 21 | 19 | .. | .. |
| Trichinopoly .. .. .. .. | 100 | 201 | 72 | 190 | 28 | 11 |
| Salem .. .. .. .. .. | 144 | 1,212 | 114 | 1,027 | 30 | 185 |
| Total .. | 1,091 | 6,189 | 752 | 4,296 | 339 | 1,893 |
| *Southern Circle.* | | | | | | |
| Madura .. .. .. .. .. | 176 | 641<br>*b*— 2 | 118 | 524 | 58 | 115 |
| Tinnevelly .. .. .. .. | 39 | 410 | 39 | 410 | .. | .. |
| North Coimbatore .. .. .. | 70 | 1,641<br>*c* — 6<br>*d*— 1 | 56 | 838 | 14 | 796 |
| South Coimbatore .. .. .. | 14 | 574 | 10 | 566 | 4 | 8 |
| Nilgiris .. .. .. .. .. | 149 | 343<br>*b* + 13 | 131 | 248 | 18 | 108 |
| North Malabar .. .. .. | 14 | 264 | 8 | 151 | 6 | 113 |
| South Malabar .. .. .. .. | 26<br>*b* + 2 | 301<br>*d* — 2 | 6 | 39 | 22 | 260 |
| South Canara .. .. .. .. | 62 | 222<br>*b* + 2 | 26 | 106 | 36 | 118 |
| Total .. | 552 | 4,400 | 394 | 2,882 | 158 | 1,513 |
| Grand Total .. | 2,160 | 16,104 | 1,402 | 10,786 | 758 | 5,318 |

*a*. Due to clubbing of blocks. *b*. By rectification *c*. At settlement, *d*. Disafforested or unreserved.

# APPENDIX A.

## Forest Settlement—*cont.*

### Particulars of balance of lands under settlement—*cont.*

| Districts. | Classification of balance in columns 6 and 7. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Settled and reported on | | | | | | | | Settled, but not reported on. | | Settlement proceeding. | |
| | Notified under section 16 during 1893–94, but reservation having effected only after 30th June 1894. | | With Board or Government awaiting publication of notification under section 16. | | Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer. | | Total settled and reported on. | | | | | |
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | | S. MLS. | | S. MLS. | | S. MLS. | | S. MLS. | | S. MLS. | | S. MLS. |
| Ganjám .. .. | 1 | 1 | 6 | 2 | 19 | 344 | 26 | 347 | 13 | 72 | 18 | 21 |
| Vizagapatam .. .. | 1 | 3 | 2 | 20 | 2 | 5 | 5 | 28 | 9 | 80 | 4 | 166 |
| Gódávari .. .. | .. | .. | 1 | 7 | 3 | 34 | 4 | 41 | 19 | 241 | 4 | 221 |
| Kistna .. .. .. | 2 | 1 | 4 | 6 | 2 | 14 | 8 | 21 | 15 | 12 | 26 | 97 |
| Anantapur .. .. | 2 | 13 | 5 | 83 | .. | .. | 7 | 96 | .. | .. | 12 | 44 |
| Bellary .. .. | 5 | 28 | 5 | 6 | 4 | 23 | 14 | 57 | 2 | 10 | 51 | 133 |
| Kurnool .. .. | 1 | 2 | .. | .. | .. | .. | 1 | 2 | 15 | 173 | 8 | 45 |
| Total .. | 12 | 48 | 23 | 124 | 30 | 420 | 65 | 592 | 73 | 588 | 123 | 727 |
| *Central Circle.* | | | | | | | | | | | | |
| Nellore .. .. .. | 2 | 17 | 2 | 58 | 1 | 88 | 5 | 163 | 1 | 56 | 17 | 19 |
| Cuddapah .. .. | 1 | 15 | .. | .. | 10 | 419 | 11 | 434 | 4 | 92 | 13 | 314 |
| Chingleput .. .. | 2 | 1 | 26 | 8 | 1 | 1 | 29 | 10 | 65 | 44 | 1 | 1 |
| North Arcot .. .. | 3 | 7 | .. | .. | .. | .. | 3 | 7 | 8 | 44 | 19 | 77 |
| South Arcot .. .. | 4 | 8 | 10 | 27 | 5 | 18 | 19 | 53 | 50 | 338 | 36 | 45 |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. .. | 1 | .. | 1 | 2 | .. | .. | 2 | 2 | 15 | 7 | 11 | 2 |
| Salem .. .. .. | 2 | 3 | .. | .. | 9 | 127 | 11 | 130 | 6 | 25 | 13 | 30 |
| Total .. | 15 | 51 | 39 | 95 | 26 | 653 | 80 | 799 | 149 | 606 | 110 | 488 |
| *Southern Circle.* | | | | | | | | | | | | |
| Madura .. .. .. | 6 | 2 | .. | .. | 13 | 24 | 19 | 26 | 6 | 10 | 33 | 79 |
| Tinnevelly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Coimbatore .. | 1 | 1 | 1 | 6 | 5 | 781 | 7 | 788 | 1 | 5 | 6 | 8 |
| South Coimbatore .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | 8 | .. | .. |
| Nilgiris .. .. | 10 | 26 | 5 | 80 | .. | .. | 15 | 106 | .. | .. | 3 | 2 |
| North Malabar .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 110 | 3 | 3 |
| South Malabar .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 17 | 259 | 5 | 1 |
| South Canara .. .. | .. | .. | 1 | 9 | .. | .. | 1 | 9 | 1 | 22 | 34 | 87 |
| Total .. | 17 | 29 | 7 | 95 | 18 | 805 | 42 | 929 | 32 | 414 | 84 | 175 |
| Grand Total .. | 44 | 128 | 69 | 314 | 74 | 1,878 | 187 | 2,320 | 254 | 1,608 | 317 | 1,390 |

# APPENDIX A.

## Forest Settlement—*cont.*

### Particulars of balance of lands under settlement—*cont.*

| | Of lands notified under section 4 in the year | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1884–85. | | 1885–86. | | 1886–87. | | 1887–88. | | 1888–89. | | 1889–90. | | 1890–91. | | 1891–92. | | 1892–93. | | 1893–94. | |
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| *Northern Circle.* | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. |
| Ganjám .. | 21 | 375 | 3 | 21 | .. | .. | .. | .. | .. | .. | .. | .. | 5 | 3 | 2 | 3 | 15 | 25 | 11 | 13 |
| Vizagapatam .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 5 | 67 | 13 | 207 | .. | .. |
| Gódávari .. | .. | .. | 2 | 182 | 1 | 8 | 2 | 19 | .. | .. | 21 | 261 | 1 | 33 | .. | .. | .. | .. | .. | .. |
| Kistna .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 21 | 1 | 12 | .. | .. | 36 | 61 | 10 | 36 |
| Anantapur .. | 1 | 34 | .. | .. | 3 | 34 | 1 | 17 | 1 | 9 | .. | .. | .. | .. | .. | .. | 2 | 9 | 11 | 37 |
| Bellary .. .. | 9 | 34 | .. | .. | .. | .. | .. | .. | 2 | 31 | .. | .. | .. | .. | .. | .. | 41 | 88 | 15 | 47 |
| Kurnool .. | .. | .. | .. | .. | .. | .. | 1 | 15 | .. | .. | .. | .. | .. | .. | 5 | 25 | 13 | 141 | 5 | 39 |
| Total .. | 31 | 443 | 5 | 203 | 4 | 42 | 4 | 51 | 3 | 40 | 23 | 282 | 7 | 48 | 12 | 95 | 120 | 531 | 52 | 172 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | | | |
| Nellore .. .. | 1 | 65 | 3 | 130 | 2 | 32 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 17 | 11 |
| Cuddapah .. | 5 | 584 | 8 | 101 | . | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 74 | 13 | 81 |
| Chingleput .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 1 | .. | .. | 19 | 16 | 25 | 11 | 50 | 27 |
| North Arcot .. | .. | .. | . | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 11 | 52 | 19 | 76 |
| South Arcot .. | .. | .. | 4 | 54 | 1 | 3 | 1 | 3 | 1 | 7 | .. | .. | 8 | 172 | .. | .. | 54 | 152 | 36 | 45 |
| Tanjore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 24 | 10 | .. | .. | - 4 | 1 |
| Salem .. .. | 4 | 32 | .. | .. | .. | .. | 1 | 2 | 2 | 19 | 3 | 15 | 2 | 21 | 2 | 61 | .. | .. | 16 | 35 |
| Total .. | 10 | 681 | 15 | 285 | 3 | 35 | 2 | 5 | 3 | 26 | 4 | 16 | 10 | 193 | 45 | 87 | 92 | 289 | 155 | 276 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | | | |
| Madura .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 39 | 101 *a* — 2 | 19 | 16 |
| Tinnevelly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Coimbatore | .. | .. | .. | .. | .. | .. | 1 | 280 | .. | .. | .. | .. | 2 | 458 | 2 | 1 | 3 | 20 | 6 | 37 |
| South Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | 8 | .. | .. |
| Nilgiris .. | .. | .. | 1 | 64 *b* + 13 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 9 | 16 | 8 | 15 |
| North Malabar .. | 2 | 70 | 1 | 40 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 3 |
| South Malabar .. | .. | .. | .. | .. | .. | .. | 10 | 19 | 5 *a* + 2 | 242 *a* — 2 | .. | .. | .. | .. | .. | .. | .. | .. | 5 | 1 |
| South Canara .. | .. | .. | 2 | 29 *a* + 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 34 | 87 |
| Total .. | 2 | 70 | 4 | 148 | .. | .. | 11 | 299 | 7 | 240 | .. | .. | 2 | 458 | 2 | 1 | 55 | 143 | 75 | 159 |
| Grand Total .. | 43 | 1,194 | 24 | 636 | 7 | 77 | 17 | 355 | 13 | 306 | 27 | 298 | 19 | 699 | 59 | 183 | 267 | 963 | 282 | 607 |

*a*. Correction.

# APPENDIX B.

## Causes of delay in the submission of final notifications of forest reserves.

| 1 | Causes of delay. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Notified under section 16 during 1893–94, but with effect only from 1894–95, *i.e.*, after 30th June 1894. | With Board or Government awaiting publication of notification under section 16. | Pending preparation of maps. | Awaiting disposal of appeals. | Awaiting expiry of time prescribed for appeal. | Only recently notified under section 4. | Awaiting payment of compensation. | Awaiting settlement of claims under enquiry. | Awaiting District Forest-officer's answers to claims, demarcation. | Settled but final report pending with the Collector or Forest Settlement-officer. | Pending with Collector or Forest Settlement-officer for revision of notifications. | Awaiting replies to references made to Collector or Board. | Awaiting inspection by the Forest Settlement-officer. | Other causes, *i.e.*, awaiting return of records from the District Courts, awaiting information from Tahsildars. | Total. |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Ganjám .. .. .. .. .. | 1 | 6 | 3 | .. | .. | 7 | .. | 1 | 8 | .. | 19 | .. | .. | 12 | 57 |
| Vizagapatam .. .. .. .. | 1 | 2 | .. | .. | .. | 1 | .. | 2 | .. | 9 | 2 | .. | .. | 1 | 18 |
| Gódávari .. .. .. .. .. | .. | 1 | 2 | 1 | .. | .. | .. | 4 | 2 | 12 | 3 | 1 | .. | 1 | 27 |
| Kistna .. .. .. .. .. | 2 | 4 | .. | 1 | 11 | 6 | 1 | 21 | .. | 1 | 2 | .. | .. | .. | 49 |
| Anantapur .. .. .. .. .. | 2 | 5 | .. | .. | .. | 3 | .. | 4 | .. | 4 | .. | 1 | .. | .. | 19 |
| Bellary .. .. .. .. .. | 5 | 5 | .. | .. | .. | 1 | 1 | .. | .. | 3 | 4 | 1 | 47 | .. | 67 |
| Kurnool .. .. .. .. .. | 1 | .. | 6 | 1 | 4 | 1 | .. | 10 | 1 | .. | .. | .. | .. | .. | 24 |
| Nellore .. .. .. .. .. | 2 | 2 | .. | .. | .. | 15 | 1 | 2 | .. | .. | 1 | .. | .. | .. | 23 |
| Cuddapah .. .. .. .. .. | 1 | .. | 11 | 2 | .. | 3 | .. | .. | .. | 1 | 10 | .. | .. | .. | 28 |
| Chingleput .. .. .. .. .. | 2 | 26 | .. | .. | .. | .. | .. | 1 | .. | 65 | 1 | .. | .. | .. | 95 |
| North Arcot .. .. .. .. | 3 | .. | .. | .. | .. | 4 | .. | 1 | 1 | 7 | .. | .. | 14 | .. | 30 |
| South Arcot .. .. .. .. | 4 | 10 | .. | 1 | 3 | .. | .. | 4 | 9 | 15 | 5 | 3 | 35 | 16 | 105 |
| Tanjore .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. .. .. .. | 1 | 1 | 9 | .. | 5 | .. | .. | 4 | 1 | 4 | .. | .. | .. | 3 | 28 |
| Salem .. .. .. .. .. | 2 | .. | 3 | 3 | 1 | .. | .. | .. | .. | .. | 9 | 6 | 6 | .. | 30 |
| Madura .. .. .. .. .. | 6 | .. | 17 | .. | .. | .. | .. | .. | 17 | .. | 13 | .. | .. | 5 | 58 |
| Tinnevelly .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Coimbatore .. .. .. | 1 | 1 | 2 | .. | .. | 2 | .. | 3 | .. | .. | 5 | .. | .. | .. | 14 |
| South Coimbatore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | .. | .. | .. | .. | 4 |
| Nilgiris .. .. .. .. .. | 10 | 5 | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | 1 | .. | 18 |
| North Malabar .. .. .. .. | .. | .. | .. | 1 | .. | 1 | .. | 2 | .. | .. | .. | .. | 1 | 1 | 6 |
| South Malabar .. .. .. .. | .. | .. | .. | 17 | .. | 4 | .. | 1 | .. | .. | .. | .. | .. | .. | 22 |
| South Canara .. .. .. .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 13 | 2 | 20 | 36 |
| Total .. | 44 | 69 | 53 | 27 | 24 | 50 | 2 | 60 | 39 | 125 | 74 | 25 | 106 | 59 | 758 |

# APPENDIX C.

## RESERVED lands not under settlement in square miles.

| District | Up to 1892–93. | Added during 1892–93 (fifteen months). | Added during 1893–94 (twelve months). | Total. | Transferred for settlement. | | | | Balance remaining; reserved lands not under settlement. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Up to 1892–93. | During 1892–93 (fifteen months). | During 1893–94 (twelve months). | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| *Northern Circle.* | | | | | | | | | |
| Ganjám .. .. | 551 | 15 | 6<br>*a* + 1 | 573 | 535 | 25 | 13 | 573 | 6 |
| Vizagapatam .. | 96 | 207 | *e* + 1 | 304 | 96 | 207 | .. | 303 | 1 |
| Gódávarí .. .. | 1,016 | *b* — 3 | *b* — 12 | 1,001 | 1,016 | *b* — 3 | *b* — 12 | 1,001 | .. |
| Kistna .. .. | 666 | 190<br>*a* — 1<br>*f* — 9 | 326 | 1,172 | 668 | 65<br>*a* — 3 | 36<br>*f* — 9 | 757 | 415 |
| Anantapur .. .. | 354 | 15<br>*a* + 32<br>*b* — 1<br>*f* — 3 | 36<br>*a* + 9 | 442 | 354 | 15<br>*a* + 39<br>*a* — 7<br>*b* — 1 | 36<br>*a* + 6 | 442 | .. |
| Bellary .. .. | 414 | 94<br>*a* — 1 | 47<br>*a* — 4<br>*c* — 3 | 547 | 352 | 94<br>*a* — 1 | 47<br>*a* — 4<br>*c* — 3 | 485 | 62 |
| Kurnool .. .. | 1,764 | 141<br>*a* + 2<br>*f* + 8 | 39 | 1,954 | 1,764 | 141<br>*a* + 2 | 39<br>*a* + 8 | 1,954 | .. |
| Total .. | 4,861 | 686 | 446 | 5,993 | 4,785 | 573 | 157 | 5,515 | 478 |
| *Central Circle.* | | | | | | | | | |
| Nellore .. .. | 591 | *a* + 2<br>*b* — 4 | 18<br>*a* — 7 | 600 | 572 | *a* + 2<br>*b* — 4 | 18<br>*a* — 7 | 581 | 19 |
| Cuddapah .. .. | 2,024 | 12<br>*a* + 45<br>*a* — 14<br>*f* + 3 | 80<br>*a* + 7<br>*b* — 11 | 2,146 | 1,844 | 96<br>*a* + 38<br>*a* — 14 | 81<br>*a* + 10<br>*b* — 11 | 2,044 | 102 |
| Chingleput .. .. | 195 | 17 | 27 | 239 | 180 | 17 | 27 | 224 | 15 |
| North Arcot .. .. | 912 | 66<br>*a* + 21<br>*b* — 2<br>*c* — 2<br>*g* — 3 | 76<br>*a* + 1<br>*b* — 3 | 1,066 | 891 | 85<br>*a* + 21<br>*b* — 1<br>*c* — 2 | 76<br>*a* + 1<br>*b* — 3<br>*g* — 3 | 1,065 | 1 |
| South Arcot .. .. | 801 | 7<br>*a* — 6 | 46<br>*b* — 4<br>*c* — 1 | 843 | 650 | 155<br>*b* — 3 | 46<br>*b* — 4<br>*c* — 1 | 843 | .. |
| Tanjore .. .. | 25<br>*e* — 1 | .. | .. | 24 | 19 | .. | .. | 19 | 5 |
| Trichinopoly .. | 246 | *a* + 5<br>*b* — 1<br>*c* — 11 | 1 | 240 | 207 | *a* + 5<br>*b* — 1<br>*c* — 11 | 1 | 201 | 39 |
| Salem .. .. .. | 1,289 | *d* + 1<br>*f* + 6 | 26<br>*a* — 6 | 1,316 | 1,177 | .. | 35 | 1,212 | 104 |
| Total .. | 6,082 | 142 | 250 | 6,474 | 5,540 | 383 | 266 | 6,189 | 285 |
| *Southern Circle.* | | | | | | | | | |
| Madura .. .. | 498 | 139 | 16<br>*a* — 2 | 651 | 481 | 144 | 16<br>*a* — 2 | 639 | 12 |
| Tinnevelly .. .. | 411 | .. | .. | 411 | 410 | .. | .. | 410 | 1 |
| North Coimbatore .. | 1,951 | 15<br>*c* — 222 | *b* — 6<br>*c* — 1 | 1,737 | 1,584 | 20 | 37<br>*b* — 6<br>*c* — 1 | 1,634 | 103 |
| South Coimbatore .. | 584 | 8<br>*a* — 1 | .. | 591 | 566 | 8 | .. | 574 | 17 |
| Nilgiris .. .. | 385 | 24<br>*a* — 1 | 15<br>*a* + 13 | 436 | 312 | 16 | 15<br>*a* + 13 | 356 | 80 |
| North Malabar .. | 274 | *a* — 2 | 3 | 275 | 261 | .. | 3 | 264 | 11 |
| South Malabar .. | 328<br>*e* + 1 | 2 | *c* — 2 | 329 | 300 | .. | *e* + 1<br>*c* — 2 | 299 | 30 |
| South Canara .. | 1,024 | 2<br>*a* — 2 | 69<br>*a* + 20 | 1,113 | 141 | 1<br>*a* — 7 | 87<br>+ 2 | 224 | 889 |
| Total .. | 5,456 | — 38 | 125 | 5,543 | 4,055 | 182 | 163 | 4,400 | 1,143 |
| Grand Total .. | 16,399 | 790 | 821 | 18,010 | 14,380 | 1,138 | 586 | 16,104 | 1,906 |

*a*. By rectification. *b*. At settlement. *c*. Unreserved. *d*. Error in previous year's abstract. (*e*) Rounding.
*f*. By rectification of areas constituted as reserved forests in previous years. *g*. Disafforested.

## APPENDIX D.

STATEMENT showing area of reserved forests for which final maps have been prepared

| Districts. | Area of reserved forests. | Area of reserved forests for which final maps have been prepared. | Districts. | Area of reserved forests. | Area of reserved forests for which final maps have been prepared. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | | SQ. MLS. | SQ. MLS. |
| Ganjám .. .. .. | 133 | 107 | Trichinopoly .. .. | 190 | (c) 6 |
| Vizagapatam .. .. | 29 | 29 | Salem .. .. .. | 1,027 | (a) .. |
| Gódávari .. .. .. | 498 | 498 | Madura .. .. .. | 524 | 524 |
| Kistna .. .. .. | 627 | (a) .. | Tinnevelly .. .. | 410 | (b) 407 |
| Anantapur .. .. .. | 302 | 302 | North Coimbatore .. | 838 | 838 |
| Bellary .. .. .. | 285 | .. | South Coimbatore .. .. | 566 | 566 |
| Kurnool .. .. .. | 1,734 | 1,734 | Nilgiris .. .. .. | 248 | 248 |
| Nellore .. .. .. | 343 | 343 | North Malabar .. .. | 150 | (b) 31 |
| Cuddapah .. .. .. | 1,204 | 906 | South Malabar .. .. | 39 | 39 |
| Chingleput .. .. .. | 169 | 169 | South Canara .. .. | 106 | 82 |
| North Arcot .. .. .. | 937 | 688 | | | |
| South Arcot .. .. .. | 407 | 407 | | | |
| Tanjore .. .. .. | 19 | 19 | Total .. | 10,786 | 7,943 |

(a) In these districts, it has been reported that none of the reserves have been finally mapped according to instructions, though owing to a misapprehension of the term "finally mapped" it was reported in 1892–93 that all the reserves had been so mapped. It is probable that other similar corrections may yet have to be made in the case of some other districts.

(b) The decrease compared with the figure given in the report for 1892–93 is due to revised estimate of area.

(c) The decrease compared with figure given in the report for 1892–93 has not been explained; but it is apparently due to the same reason as that assigned for Kistna and Salem.

## APPENDIX E.

STATEMENT showing the number of forest offences reported during 1893–94 and the particulars of their disposal.

| Districts. | Cases pending at the beginning of the period. | Cases reported during the period. | Total number of cases for disposal (columns 2 and 3). | Number of cases withdrawn. | Number of cases compounded. | Number of cases taken into Court and dealt with by the Magistracy during the period. | Total number of cases disposed of (columns 5, 6 and 7). | Number of persons concerned in cases disposed of. | Balance of cases undisposed of | | | Percentage of cases withdrawn to cases disposed of. | Percentage of cases compounded to cases disposed of. | Number of convictions. | Number of acquittals. | Percentage of acquittals to cases disposed of by Magistrates. | Amount of compensation fees realized for cases compounded. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | With Magistrates. | With Forest-officers. | Total. | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | | | | | | | | | | | | | | | | | Rs. |
| Ganjám .. 1892–93 .. | 135 | 231 | 366 | 20 | 23 | 149 | 192 | 614 | Not given | | 174 | 10 | 12 | 90 | 59 | 39 | 239 |
| 1893–94 .. | 174 | 190 | 364 | 44 | 42 | 195 | 281 | 932 | 82 | 1 | 83 | 16 | 15 | 104 | 91 | 46 | 206 |
| Vizagapatam .. 1892–93 .. | 90 | 764 | 854 | 7 | 244 | 577 | 828 | 1,184 | Not given. | | 26 | 1 | 29 | 530 | 47 | 8 | 635 |
| 1893–94 .. | 26 | 245 | 271 | 4 | 110 | 110 | 224 | 892 | 28 | 19 | 47 | 2 | 49 | 93 | 17 | 15 | 748 |
| Gódávari .. 1892–93 .. | 6 | 626 | 632 | .. | 13 | 255 | 268 | 350 | 351 | 13 | 364 | .. | 5 | 225 | 30 | 12 | 201 |
| 1893–94 .. | 364 | 101 | 465 | 24 | 37 | 382 | 443 | 629 | 12 | 10 | 22 | 5 | 8 | 290 | 92 | 24 | 409 |
| Kistna .. 1892–93 .. | 171 | 709 | 880 | 31 | 225 | 306 | 562 | 2,070 | Not given. | | 318 | 6 | 40 | 251 | 55 | 18 | 2,052 |
| 1893–94 .. | 318 | 734 | 1,052 | 79 | 500 | 194 | 773 | 2,367 | 71 | 208 | 279 | 10 | 65 | 158 | 36 | 18 | 5,552 |
| Anantapur .. 1892–93 .. | 38 | 264 | 302 | .. | 71 | 203 | 274 | 908 | Not given. | | 28 | .. | 26 | 166 | 37 | 18 | 859 |
| 1893–94 .. | 10 | 310 | 320 | .. | 91 | 205 | 296 | 777 | 24 | .. | 24 | .. | 31 | 151 | 54 | 26 | 402 |
| Bellary .. 1892–93 .. | 5 | 360 | 365 | .. | 31 | 319 | 350 | 837 | 15 | .. | 15 | .. | 9 | 260 | 59 | 18 | 542 |
| 1893–94 .. | 15 | 194 | 209 | 10 | 15 | 171 | 196 | 504 | Not given. | | 13 | 5 | 8 | 149 | 22 | 13 | 348 |
| Kurnool .. 1892–93 .. | 23 | 374 | 397 | .. | 35 | 353 | 388 | 1,331 | 7 | 2 | 9 | .. | 9 | 215 | 138 | 39 | 675 |
| 1893–94 .. | 9 | 282 | 291 | 19 | 68 | 146 | 233 | 539 | 57 | 1 | 58 | 8 | 29 | 105 | 41 | 28 | 777 |
| Nellore .. 1892–93 .. | 22 | 148 | 170 | 5 | 57 | 83 | 145 | 532 | 7 | 18 | 25 | 3 | 39 | 65 | 18 | 22 | 283 |
| 1893–94 .. | 25 | 163 | 188 | 12 | 45 | 106 | 163 | 522 | 24 | 1 | 25 | 7 | 27 | 92 | 14 | 13 | 172 |
| Cuddapah .. 1892–93 .. | 178 | 713 | 891 | .. | 248 | 363 | 611 | 1,197 | Not given. | | 280 | .. | 41 | 303 | 60 | 16 | 2,168 |
| 1893–94 .. | 280 | 544 | 824 | 35 | 366 | 301 | 702 | 1,395 | 69 | 53 | 122 | 5 | 52 | 276 | 25 | 8 | 1,048 |
| Chingleput .. 1892–93 .. | 25 | 298 | 323 | 28 | 200 | 93 | 321 | 653 | 2 | .. | 2 | 9 | 62 | 70 | 23 | 25 | 559 |
| 1893–94 .. | 2 | 203 | 205 | 28 | 138 | 33 | 199 | 452 | 6 | .. | 6 | 14 | 69 | 27 | 6 | 18 | 1,032 |
| North Arcot .. 1892–93 .. | 73 | 884 | 957 | 54 | 518 | 364 | 936 | 1,675 | 21 | .. | 21 | 6 | 55 | 230 | 134 | 37 | 5,221 |
| 1893–94 .. | 21 | 1,055 | 1,076 | 10 | 617 | 375 | 1,002 | 2,436 | 10 | 64 | 74 | 1 | 62 | 306 | 69 | 18 | 6,159 |
| South Arcot .. 1892–93 .. | 491 | 1,090 | 1,581 | 333 | 543 | 518 | 1,394 | 4,412 | 72 | 115 | 187 | 24 | 39 | 423 | 95 | 18 | 3,268 |
| 1893–94 .. | 187 | 1,283 | 1,470 | 198 | 671 | 394 | 1,263 | 3,757 | 58 | 149 | 207 | 16 | 53 | 315 | 79 | 20 | 6,181 |

Statement showing the number of forest offences reported during 1893-94 and the particulars of their disposal—*cont.*

| Districts. | | Cases pending at the beginning of the period. | Cases reported during the period. | Total number of cases for disposal (columns 2 and 3). | Number of cases withdrawn. | Number of cases compounded. | Number of cases taken into Court and dealt with by the Magistracy during the period. | Total number of cases disposed of (columns 5, 6 and 7). | Number of persons concerned in cases disposed of. | Balance of cases undisposed of. | | | Percentage of cases withdrawn to cases disposed of. | Percentage of cases compounded to cases disposed of. | Number of convictions | Number of acquittals. | Percentage of acquittals to cases disposed of by Magistrates. | Amount of compensation fees realized for cases compounded. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | With Magistrates. | With Forest-officers. | Total. | | | | | | |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | | | | | | | | | | | | | | | | | | Rs. |
| Tanjore | 1892-93 | 3 | 56 | 59 | 9 | 30 | 13 | 52 | 175 | 7 | .. | 7 | 17 | 60 | 9 | 4 | 31 | 1,518 |
| | 1893-94 | 7 | 43 | 50 | 10 | 16 | 16 | 42 | 171 | 8 | .. | 8 | 24 | 33 | 13 | 3 | 19 | 73 |
| Trichinopoly | 1892-93 | 63 | 946 | 1,009 | 9 | 741 | 156 | 906 | 1,705 | 1 | 102 | 103 | 1 | 82 | 100 | 56 | 36 | 3,383 |
| | 1893-94 | 103 | 605 | 708 | 25 | 530 | 119 | 674 | 1,542 | 30 | 4 | 34 | 4 | 79 | 105 | 14 | 12 | 2,135 |
| Salem | 1892-93 | 32 | 1,033 | 1,065 | 88 | 302 | 632 | 1,022 | 3,798 | 43 | .. | 43 | 9 | 30 | 502 | 130 | 21 | 2,274 |
| | 1893-94 | 43 | 834 | 877 | 31 | 246 | 538 | 815 | 3,091 | 33 | 29 | 62 | 4 | 30 | 382 | 156 | 29 | 2,216 |
| Madura | 1892-93 | .. | 105 | 105 | 4 | 1 | 89 | 94 | 277 | Not given | | 11 | 4 | 1 | 40 | 49 | 55 | 15 |
| | 1893-94 | 11 | 73 | 84 | .. | 3 | 75 | 78 | 225 | .. | .. | 6 | .. | 4 | 63 | 12 | 16 | 45 |
| Tinnevelly | 1892-93 | 20 | 422 | 442 | 15 | 37 | 380 | 432 | 815 | 10 | .. | 10 | 3 | 9 | 298 | 82 | 22 | 1,349 |
| | 1893-94 | 10 | 615 | 625 | 132 | 236 | 198 | 566 | 1,030 | 14 | 45 | 59 | 23 | 41 | 159 | 39 | 20 | 942 |
| North Coimbatore. | 1892-93 | 49 | 329 | 378 | 9 | 172 | 88 | 269 | 871 | Not given | | 109 | 3 | 64 | 55 | 33 | 38 | 2,372 |
| | 1893-94 | 109 | 301 | 410 | 22 | 234 | 135 | 391 | 1,175 | 9 | 10 | 19 | 6 | 60 | 91 | 44 | 33 | 2,985 |
| South Coimbatore. | 1892-93 | 46 | 438 | 484 | 34 | 238 | 179 | 451 | 1,547 | 10 | 23 | 33 | 8 | 53 | 155 | 24 | 13 | 2,950 |
| | 1893-94 | 33 | 338 | 371 | 36 | 196 | 109 | 341 | 1,114 | 6 | 24 | 30 | 11 | 57 | 82 | 27 | 25 | 2,123 |
| Nilgiris | 1892-93 | 36 | 206 | 242 | 19 | 145 | 51 | 215 | 571 | .. | 27 | 27 | 9 | 67 | 37 | 14 | 27 | 1,133 |
| | 1893-94 | 27 | 146 | 173 | 21 | 85 | 49 | 155 | 329 | 8 | 10 | 18 | 13 | 55 | 43 | 6 | 12 | 1,145 |
| North Malabar. | 1892-93 | .. | 64 | 64 | .. | 37 | 16 | 53 | 100 | Not given | | 11 | .. | 70 | 13 | 3 | 19 | 151 |
| | 1893-94 | 11 | 57 | 68 | .. | 32 | 24 | 56 | 111 | .. | .. | 12 | .. | 57 | 23 | 1 | 4 | 190 |
| South Malabar. | 1892-93 | [redacted] | 14 | 15 | .. | 1 | 14 | 15 | 27 | .. | .. | .. | .. | 7 | 11 | 3 | 21 | 20 |
| | 1893-94 | [redacted] | 16 | 16 | .. | 3 | 1 | 4 | 29 | .. | .. | 12 | .. | 75 | 1 | .. | .. | 120 |
| South Canara. | 1892-93 | 49 | 831 | 880 | 31 | 194 | 475 | 700 | 1,045 | 135 | 45 | 180 | 4 | 28 | 410 | 65 | 14 | 1,626 |
| | 1893-94 | 180 | 1,675 | 1,855 | 54 | 1,028 | 355 | 1,437 | 1,968 | 165 | 253 | 418 | 4 | 71 | 284 | 71 | 20 | 2,587 |
| Total | 1892-93 | 1,556 | 10,905 | 12,461 | 696 | 4,106 | 5,676 | 10,478 | 26,694 | .. | .. | 1,983 | 7 | 39 | 4,458 | 1,218 | 21·4 | 33,493 |
| | 1893-94 | 1,965 | 10,007 | 11,972 | 794 | 5,309 | 4,231 | 10,334 | 25,987 | .. | .. | 1,638 | 7 | 51 | 3,312 | 919 | 22 | 37,595 |

# APPENDIX F.

STATEMENT showing the area of forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile during 1893–94.

| Districts. | Area of reserved forests and reserved lands. | Area closed to grazing. | Area open to grazing. | Area grazed over. | Number of cattle and sheep admitted (*c*). | Average number of cattle and sheep per square mile. |
|---|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | | |
| 1. Ganjám .. .. .. .. | 574 | 179 | 395 | Not known | 17,201 | Cannot be given. |
| 2. Vizagapatam .. .. .. | 303 | 3 | 300 | Do. | 944 | Do. |
| 3. Gódávari .. .. .. .. | 1,001 | 53 | 948 | (*a*) 948 | 15,558 | 16 |
| 4. Kistna .. .. .. .. | 1,172 | 146 | 1,026 | Not given | (*b*) 109,826 | Cannot be given. |
| 5. Anantapur .. .. .. .. | 442 | 124 | 318 | Do. | 14,952 | Do. |
| 6. Bellary .. .. .. .. | 547 | 397 | 150 | Do. | 19,246 | Do. |
| 7. Kurnool .. .. .. .. | 1,954 | 56 | 1,898 | 1,896 | not given | Do. |
| 8. Nellore .. .. .. .. | 601 | .. | | Leased out | | |
| 9. Cuddapah .. .. .. .. | 2,146 | Not given | Not given | Not given | 39,956 | Do. |
| 10. Chingleput .. .. .. .. | 239 | Do. | Do. | Do. | 33,346 | Do. |
| 11. North Arcot .. .. .. | 1,066 | 64 | 1,002 | Do. | 268,245 | Do. |
| 12. South Arcot .. .. .. | 843 | 8 | 835 | 835 | 160,746 | 191 |
| 13. Tanjore .. .. .. .. | 24 | 1 | 23 | 19 | 3,045 | 160 |
| 14. Trichinopoly .. .. .. | 240 | 106 | 134 | 114 | 15,482 | 136 |
| 15. Salem .. .. .. .. | 1,316 | 58 | 1,258 | Not given | 210,560 | Cannot be given. |
| 16. Madura .. .. .. .. | 651 | 82 | 569 | Do. | 14,762 | Do. |
| 17. Tinnevelly .. .. .. .. | 411 | 24 | 387 | 107 | 26,904 | 251 |
| 18. North Coimbatore .. .. .. | 1,737 | 211 | 1,526 | 1,526 | 130,130 | 85 |
| 19. South Coimbatore .. .. .. | (*d*) 591 | 58 | 507 | Not given | 37,005 | Cannot be given. |
| 20. Nilgiris .. .. .. .. | 437 | 242 | 195 | Do. | 34,176 | Do. |
| 21. North Malabar .. .. .. | 274 | 84 | 190 | 31 | 8,973 | 289 |
| 22. South Malabar .. .. .. | 329 | .. | .. | .. | .. | .. |
| 23. South Canara .. .. .. | 1,112 | 704 | 408 | Not given | 26,699 | Cannot be given. |

(*a*) A portion of this was open to free grazing and the number of cattle grazed on that portion is not known.

(*b*) Includes number of cattle grazed on unreserved lands.

(*c*) Most of the Collectors have not reported the number of sheep separately from that of cattle.

(*d*) Includes Tekadi leased forests of 26 square miles.

NOTE.—Demand for grazing in South Malabar was very limited as large areas outside were available for free grazing.

## APPENDIX G

### Natural Reproduction.

*Northern Circle.*

In Ganjám, the reproduction of most trees is excellent in Goomsur, that of Sal being preminent.

Reproduction in Berhampur is backward. In Vizagapatam, the growth in the Peddapalli reserve continues good; and in the Golgonda range is marked in Kondavatipudi, where the contrast with the unreserved forest is most marked. In the Golgonda Agency, reproduction is backward owing to fires by hillmen.

In the District report, the question is mooted whether cultivation might not be encouraged in the Golgonda Agency.

*In Godávari.*—In Bhadráchalam, the grass is so poor that cattle eat the leaves of trees and shrubs largely. Coppice is here strong, however, in parts. Reproduction is not good in Rajahmundry range. There is a fair show of seedlings in Lakkonda; and in the Ellore range in Bandymacherla, which has been successfully fire-protected for five years, there is a very dense growth in the numerous clearings which existed before the forest was taken up. In the Yernagúdem range the reproduction which last year was said to have been exceptionally good in two reserves received a severe check from over-grazing and fires, when the Forest Department was excluded from control. In all the upland taluks bamboos are springing up well. In the coast reserves growth has improved since watchers were appointed.

In *Kistna*, seedlings of *Hardwickia binata* are coming on well in closed reserves. The coppice of *Acacia Arabica* felled last year is 2½ to 5 feet high.

In *Bellary*, Hardwickia seedlings are coming on in Malapangudi and bamboos in Rayadrug. Reproduction is good on the northern slopes of Rayadrug, but not marked elsewhere. There is an improvement in the growth in Chiribi and Sunkadakal and Hardwickia seedlings are numerous.

From *Anantapur* and *Kurnool*, there is nothing new to record. The coppice in the latter in the areas cut for engine fuel when making the railway line is coming on fairly. The growth in the areas treated under Improvement fellings is fair, but there is a high proportion of light wood. General reproduction is much checked by fires.

*Central Circle.*

In *Cuddapah*, bamboo seedlings of both kinds are coming up freely. Advantage was taken of the seeding and large quantities of seeds were sent throughout India. Red sanders still shows poor reproduction from seed. *Hardwickia binata* improved considerably in Thunukonda and Kóduru where grazing was prohibited; this valuable tree seems specially injured by cattle.

*Chingleput.*—Coppice in Aradur, Sattiavadu and Tandrai is satisfactory. In *South Arcot*, reproduction is good in the fire-protected areas of Tenmalai. There has been a very good coppice growth of *Acacia sundra* (shoots from 6 to 10 feet) in the Annamalai reserve. In *North Arcot*, bamboos are shooting well. In the protected blocks of Polur and Vellore, *Anogeissus latifolia*, *Chloroxylon swietenia* (Satinwood) and Lebidieropsis are coming up well from seed, and in all the coupes in these ranges the regrowth of these species from coppice seems to be taking entire possession of the ground. Sandalwood regeneration is promising. In *Salem*, natural reproduction from coppice continues good, but growth from seed is not good except under special protection. Sandalwood regeneration is promising in Singampet and Jowlagiri. In Tanjore, coppice is fair. Here, as elsewhere, casuarina coppice is erratic and unsatisfactory.

*Southern Circle.*

In *Tinnevelly*, it is believed that the treatment of the forest under the coupe system (coppice under standard) is materially improving the general growth at the foot and lower slopes of the hills. Teak seedlings appear in large numbers but dry down in the hot weather. It is believed that a fair percentage, however, maintains its vitality. It is noted that sandalwood seedlings are coming up well in the Alagarcovil valley of the Srívilliputtúr taluk, which is remarkable because there are no sandalwood trees anywhere in this locality. For the 49 coupes, over an area of 2,404 acres, the Conservator's calculations differ from those of the District Forest-officer. He calculates the average outturn of wood at eight tons an acre, and the net profit at Rs. 8 an acre. At a sixteen years' rotation, this would give an income of eight annas an acre. However, the value of the standard trees seems not to have entered into these calculations. More than half the yield is worked up into charcoal.

In the evergreen forests the reproduction of the tree which is most in demand (*Hopea wightiana*) is good.

In *North Coimbatore*, the forest area is vast, and little has been done in the way of fire-protection. Natural reproduction is much hindered by fires and grazing. In *South Coimbatore*, there is a general absence of poles in the teak forest, and a special report by the Senior Conservator is awaited. Some experiments on areas covered with scrub bamboo showed that germination was extensive, but the greatest difficulty is experienced in areas covered by the dense coarse grass. In Pollachi, coppice is promising, also in Bolumpatty; but it is poor in Méttupálaiyam. In *North Malabar*, the reproduction of teak in most unsatisfactory. Blackwood (*Dalbergia latifolia*) reproduces well in places, also *Terminalia tomentosa*, Anogeissus and Lebbek. In *South Malabar*, reproduction is good in Nellikutta and Karunpoya, except in seedlings of teak. In Wálayár, coppice is good. In Chenat Nair, there is a fair growth of seedlings of Xylia, Pterocarpus, Dalbergia and Lagerstrœmia. In *South Canara*, experiments have been made which show that the bad reproduction of *Acacia sundra* heretofore was caused almost entirely by cattle. In the Udipi range, there is good reproduction of Hopea, Terminalia and *Artocarpus hirsuta*. In Puttur, *Xylia dolabriformis* reproduces so strongly that fears are entertained for the future of some other valuable species in some places. Throughout the district in fire-traced areas *Terminalia*, *Pterocarpus*, *Hopea*, and to a less degree *Lagerstrœmia* and the *Poonspar* have reproduced well from seed.

*Seeding.*—It was a great year for seeding. Bamboos seeded (both kinds, but chiefly Dendrocalamus) in Gódávari, Cuddapah and South Coimbatore.

Sal (*Shorea robusta*) seeded well in Ganjám, and also Matwa (*Bassia latifolia*).

*Terminalia chebula* (gallnuts) seeded very largely in Vizagapatam and South Canara.

Tamarind crops were phenomenal in Ganjám, Vizagapatam and Kistna.

Mangoes were very plentiful in Ganjám and South Canara, but scarce in Kistna.

*Hardwickia binata* in Kistna seeded most prolifically on certain trees, while there were no seeds at all on others; the proportion was about one to two of seeding trees.

Several forest trees seeded largely in South Canara, where notes are kept on these points.

## Artificial Reproduction.

In the new casuarina plantation in *Ganjam*, the growth is very fair. In *Kistna*, there was so great a mortality in one plantation from borer that the trees were all clean felled. In the new planting there were a great number of casualties, due partly to unskilled labour, for the work was done by gardeners gathered from outlying topes and the District Forest-officer was unfortunately called away to the other end of the district at the critical time. Some 41 acres were successfully planted however. In *Nellore*, the reproduction of casuarina is not altogether satisfactory. There are a large number of casualties in these plantations, but the cause is not accurately determined. It is probably from a combination of causes, deterioration in the seed, exhaustion of the soil for this particular crop, and the increase of enemies which get a great vantage-ground when large areas are under the growth on which they feed. An attempt is being made to get seed from the natural habitat of the casuarina.

In *Nilambúr*, the reproduction of teak is fair, but there are a considerable number of deaths among the growing stock of various ages. Better success is experienced with the *Swietenia Macrophylla*, than with the *Swietenia Mahogany*, and considerable areas are being planted with Mahogany mingled with the teak. An area of 120 acres was planted up in these plantations during the year.

On the *Nilgiris*, there is an order against growing any more Eucalyptus within the settlements. Seventy acres were planted up outside the settlement with Australian Acacias and *Eucalyptus rostrate*. It is questionable policy to extend the growth of *Acacia dealbata* (yellow wattle) anywhere, as it is an unmixed nuisance in many places from its habit of throwing up root-suckers. Under the Badaga plantation scheme, ten acres were planted up. The growth in the plantations is as rapid as ever.

In *Madura*, on the Palnis, the growth of the twenty acres of Eucalyptus planted during the year is satisfactory.

## Cultural Operations.

Various operations were attempted. In *Ganjám* 10,000 palmyra seeds were sown. In *Kistna*, a large experimental garden was established in the Weld reserve and experiments were made, not only with forest trees, but with fruit trees and ornamental shrubs. A sale nursery was opened.

In *Bellary*, an important experimental work in culture was tried, namely, to extend the growth of the wild date, *Phœnix sylvestris*. The subject was mooted by the Deputy Commissioner of the Abkári Department, and the Conservator, Northern Circle, advised the commencement of inexpensive experiments first. Two hundred and fifty-four acres in various places, where the dates grow naturally, were ploughed and sown with date seeds. No watering whatever was to be done, as this is the main expense in plantations. The cost was trifling, and the experiment so far is successful. A number of palmyra seeds were also sown. In the Central Circle, in the returns of North Arcot, there were a variety of operations, which it is difficult to classify. There were great losses in the planting of casuarina and Eugenia in Ammundi plantation and

also in Viringipuram and among the date plants put down in Tiruvallum. There was an absence of early showers. Various experiments were made with sowing seeds of *Cassia auriculata* (Avaram) and Sandalwood, with moderate success in the former case and little in the latter. A large number of palmyra seeds were sown; also bamboo seeds and seedlings with only partial success; and there were very large attempts at broadcast sowing of various seeds.

Fifty pounds of seed of casuarina were received from Tennasserim and distributed to Nellore, North Arcot, and Chingleput chiefly, in order to try to get stronger seedlings.

In *Cuddapah* various attempts have been made, among which the teak plantation at Sauthakora and Seshachellum seems a decided success. Various attempts have been made with Mahogany seeds, but with little decided success.

In the Southern Circle a large amount of experiments have been made in Tinnevelly in sowing palmyra seed, teak, bamboo, casuarina and other seeds; and an attempt was made to reclaim a sandy waste of 13,000 acres. The Conservator, Southern Circle, considers the attempts rather too desultory with our present small establishments.

In *North Malabar* attempts have been made to improve land felled over at Kanoth for shifting cultivation, by sowing a very large number of *Artocarpus* (*integrifolia* and *hirsuta*) seeds. In *South Canara* many attempts were made at broadcast sowing of seeds.

## Experiments and Exotics.

### *Northern Circle.*

*Ganjám.*—The date experiment at Chatrapur is a failure, and an attempt to grow *Swietenia macrophylla* from seed was unsuccessful.

*Vizagapatam.*—Seedlings of *Swieteniam* have germinated fairly well. Seedlings of various indigenous species have been raised in the two topes.

*Kistna.*—In the Weld reserve seeds of the two Mahoganies were sown, but germinated badly; the few which exist are thriving; the Mahogany in Bezwada is doing well. Some lichi seeds sent by Captain Cardew, R.E., from Calcutta have come up well. Some Mulberry sticks sent from Salem were tried; the thicker ones succeeded. Some cuttings of edible fig were brought down from Palnad taluk, where one tree exists in a village. One cutting has succeeded and looks thriving.

*Bellary.*—At the Kupgal plantation 4,000 trees have been established at a cost of Rs. 330; they are of various kinds—Mangoes, *Pongamia glabra*, *Albizzia lebbek*, Nim, Tamarind, *Bassia latifolia*, *Eugenia jambolana*, *Psidium pomiferum*, and Mahogany. An attempt has been made to try what kinds of trees will grow in this locality. A native gentleman who takes much interest in experiments has succeeded well with mahogany and dates.

*Mahogany.*—Out of 1,100 seeds some 250 seedlings have survived in the Ramandrug nursery.

### *Central Circle.*

*Date.—In Cuddapah*, the dates in the Balapalle nursery show no improvements. Of the 105 Persian Gulf dates planted in Periyaveram plantation, 34 died during the year in spite of regular watering.

*In Chingleput*, the Busrah and South Malabar plants are thriving fairly well, as also the Egyptian dates sown in the Chingleput range. Those sown in Tiruvallúr and Saidapet have all died.

*In South Arcot*, there remained 140 trees on 30th June 1893 in this district. To this were added six trees, and four having died during the year, the balance at the close of the year was 142 trees, varying in height from 3′ to 10′.

*In Tanjore*, of the 446 date plants which were planted in 1881 in the north and south date gardens in the Vettangudi forest which remained alive at the close of 1892–93, 146 in the former and 18in the latter survive, varying in height from 4′ to 13′ and 5′ to 12′ respectively. Of the date offsets planted in 1886, five in north garden and 47 in the south garden survive. Only 69 out of the 95 plants planted in November 1892 are alive.

*In Trichinopoly*, the thirty date offsets imported are in Manattattai plantation varying in height from 13′ to 18′ with a girth of 4′ to 4½′. Of the 800 seeds planted in 1887–88, 569 plants germinated. They were distributed to four plantations and their heights vary from 6′ to 7½′ with a girth of 1½′ to 2′.

In *Nellore* there are two plantations at Allipuram (six miles from Nellore) and at Sriharikóta. There have been many casualties, chiefly at Sriharikóta and chiefly from the ravages of a caterpillar. Sprinkling sulphur powder over the leaves was found to be a temporary remedy.

At present there are over 2,200 date trees alive of Arabian, Persian and Egyptian species, but it is doubtful if the experiment will be ultimately successful.

In *North Arcot* 80,000 date plants were planted during the year, but only 11,000 survived the dry rainless weather.

*Mahogany—Cuddapah.*—The 113 *Swietenia macrophylla* plants in compartment 3 (*b*) of Balapalle working circle have died. Of those in Kodur Red sanders plantation and Ooperapalle, 90 per cent. have survived the hot weather. These plants were regularly watered, while those in the working circle were not.

*Chingleput.*—Of the 40 seedlings at Saidapet, 39 are flourishing, one having died.

*South Arcot.*—To the 180 trees in the district at the beginning of the year, 234 trees were newly added, but 16 died, leaving at the end of the year 398 trees. The old trees vary in height from 3′ to 12′, those put out during the year varying from 4″ to 6″.

*Tanjore.*—Of the 35 trees that remained at the commencement of the year in the Vettangudi reserved forests, six died during the year, leaving 29 varying from 9′ to 25′ in height. The mahogany does not appear to thrive well in the district.

*Trichinopoly.*—The mahogany plants in the Cauvery south bank plantation are not doing well, probably through the neglect of the Range officer.

*Peltophorum ferrugineum.*—In *South Arcot* there were 777 trees at the close of last year in Siruvadi and Murungapakam. 172 of these trees either died or were washed away in floods, leaving 605 trees on 1st July 1894 with a height of 23′.

*Red Sanders.*—In *South Arcot*, 8 plants were added to the existing 28 trees in the Relief camp tope in the Tindivanam range.

*Sissu.*—In *South Arcot*, to the 548 trees that remained at the end of 1892–93, 151 were added during the year, all of which remain alive. They vary in height from 25′ to 40′.

*Burma bamboos.*—In *Chingleput*, these Burma bamboos are in good condition.

*Ceara Rubber.*—In *South Arcot*, of the 214 trees which remained alive at the commencement of the year under report, 14 were blown down and one died, leaving 199 trees at the end of the year, their height varying from 25′ to 30′. A large number of plants from self-sown seeds was also available.

*Erythroxylon cocoa.*—In *Cuddapah*, the plants at Horsleykonda have improved somewhat during the year.

*Acrocarpus fraxinifolius—Cuddapah.*—The plants planted in the Balapalle working circle have suffered much. Those which were put out in compartment 3 (*b*) are doing well.

*Southern Circle.*

*Tinnevelly.*—Some of the blue gums planted at a height of 2,500 feet in 1884 have reached, a height of sixty feet.

*North Coimbatore.*—Little of importance.

*South Coimbatore.*—Some Mahogany seeds were sown, and came up well.

*Nilgiris.—Conifers.*—The *Pinus insignis* plants raised last year were planted in Kengal block and the plants are thriving.

*Cupressus Forulosa and Cashmeriana.*—These plants in Ebbanad nursery are doing well and will be planted out.

*Pinus pinea.*—The forty plants in Sim's Park have made some progress, and are now from 2 to 4¼ feet in height with a girth of 1¼ to 2 inches.

*Pinus halepensis.*—The thirteen plants that survived last year have all died since. The locality is evidently not suitable.

*Pinus laricio Austriacea.*—All the plants died during the year.

*Bucklandia populnea.*—These have made very fair progress and the largest are 19 feet in height and 8 inches in girth at 3 feet from the ground.

*Podocarpus elongatus.*—The growth of this is very slow, the largest being only 3½ feet high and ¾ inch in girth though planted in 1885.

*Acacia decurrens.*—The 2,300 trees planted in 1887 at Coonoor Peak are doing well, the largest having attained a height of 38 feet with a girth of 30 inches.

*Acacia Pycnantha.*—These have also made fair progress, the largest being 10 feet high and 1½ inch in girth.

*Phœnix sylvestris.*—The plants at Tippacadu and Kullar have died.

*Eucalyptus various species.*—Almost all the *Eucalyptus* plants in Sim's Park are reported doing fairly well. Twenty-eight varieties have been received from Messrs. Sheppard and [redacted] Sydney, New South Wales, and are being experimented with in the Badaga plantations and cultural operations in the Ootacamund range.

*Bamboos.*—The Japanese bamboos planted in Cully shola (Kengal) last year are thriving. Several root-suckers have come up and the parent plants are between 1½ and 9 feet in height.

*Dendrocalamus Hamiltonii.*—The two specimens of this bamboo planted in Sim's Park in 1889 are doing well and the biggest is 28 feet in height, the largest culm being 8 inches in circumference.

*Dendrocalamus Sikkimensis.*—The three plants in the Sim's Park are doing well. The culms vary from 17 to 20 feet in height with a girth of 7½ inches.

*Beesha Travancorica.*—The eight plants in the Benhope nursery are now from 6 to 15 feet in height and 4 inches in girth and are making satisfactory progress.

*Dendrocalamus Brandisii.*—The plants at Benne are doing well.

*Manilla hemp (Musa textilis).*—Five plants were planted at Benne and they are making fair progress notwithstanding the ravages committed by the elephants.

The *Swietenia Mahogany* at Kullar on the banks of the river continue to flourish. The largest trees are 39 feet in height and 14 inches in girth.

*Swietenia Macrophylla.*—The plants put out in the Kullar reserve are now 5 to 25 feet in height and 6 to 18 inches in girth, the largest being 25 feet high and 18 inches in girth. The 153 plants planted in April 1891 in the Benhope nursery are now 3 to 4 feet high and ¼ to 1 inch in circumference. The 460 plants raised in this nursery in June 1893 are 3 to 18 inches in height and the 1,570 seedlings in September 1893 are one to two inches in height ready for planting out. The 150 plants round the Benne rest-house are prospering, but those planted in the experimental block are not so good and are more or less liable to damage by elephants. The plants raised in the nursery in June and July 1893 have been basketted and will shortly be planted in the experimental block. Two hundred and forty-one seeds were sown in beds in the Kengal block and almost all of them have germinated and are between two and three inches high.

During the year a small quantity of Chinese guava seeds were received from Tinnevelly and tried in the Benhope, Benne and Kengal nurseries. Those sown in the last nursery have germinated but the others failed. Two pounds of *Aleurites triloba* were received from Manantoddy and tried at Benne and Benhope. Thirteen plants were raised and planted in the Benne range office compound, but none of those seeds sown at Benhope germinated.

Fifteen varieties of Osier cuttings, four of each, were received from the Royal Botanic Gardens, Kew, and planted in the Marlimund reserve. Of these four varieties died out completely; of eight others only one plant of each survives and the remaining three kinds are so far promising.

*North Malabar.*—Little was done during the year. Thirty *Ficus elastica* were planted at Mukkie, thirty at Dindimal and seventy at Kuppadi. The cuttings planted in 1872 at Kanoth do not look well. The growth of four trees at Manantoddy seems excellent. It is supposed that they were planted before 1885. They are 25 feet in height and well grown.

*Mahogany*—Have proved a failure.

*Giant Bamboos (Dendrocalamus Brandisii).*—These are growing excellently wherever planted, as also is *D. longispathus.*

*Cephalostachyum pergracile.*—Thirteen clumps continue to do well and are now over 35 feet high.

*Beesha Travancorica*—Grows well at Manantoddy. The height is 25 feet. Mr. Gamble gives the height at 6 to 8 feet. This may be another variety.

*Golden Burma Bamboo.*—Eight clumps growing well at Manantoddy. The District Forest-officer as an experiment made 512 cuttings, on which 249 have rooted.

*Cæsalpinia sappan*—Do not thrive.

*Phœnix dactylifera*—Do not thrive.

*Bixa orellana*—Grows well.

*Eucalyptus.*—There are 45 growing well; four species.

*Pithecolobium saman*—Does well in the low-lying land, but badly on the hill.

*Hevea Braziliensis*—The two plants grow well. There are three at Kanoth doing well.

*Vamilla.*—The growth is good throughout the garden, especially on the pandal, and the crop this year was fairly heavy. The cultivation is not being extended as there is no market for the pods.

*Ceara rubber* trees grow like weeds and reproduce readily from seeds.

*Pepper.*—Doing well.

*Liberian coffee.*—The one tree is doing well, and seed has been planted.

Besides these various fruit trees have been planted at different places.

*South Malabar.*—The Giant bamboos and the Ceara, Castilloa and Hevea rubbers continue to do well.

The Ipecacuanha does not thrive. This experiment might perhaps be tried again with fresh plants in another place. It is believed that the original growth of the plants was checked.

*South Canara.*—All the eleven clumps of *Bambusa longispatha* are doing well.

Some experiments are being made with *divi-divi* and the two species of Mahogany; but success is indifferent and doubts are entertained as to the practical utility of continuing them until experimental gardens under proper supervision can be established.

The four clumps of bamboo at Uppinangadi are doing well.

### Works of Improvement.

#### *Northern Circle.*

*Ganjám.*—Creepers were cut over 4,350 acres at a cost of Rs. 350.

*Kistna.*—No departmental creeper cutting was done, but creepers were allowed free of charge from certain reserves, and advantage was taken of the offer.

About 400 acres in Kanukolla reserve have been given on cowle for six years on condition of the entire removal of prickly-pear.

*Bellary.*—Removal of prickly-pear and some fencing was all that was done during the year.

*Kurnool.*—Improvement fellings were continued at Chelama; these were rather in the nature of thinnings than fellings owing to want of knowledge on the part of Rangers; the financial results were correspondingly improved.

### Improvement Fellings.

#### *Central Circle.*

Improvement fellings proper are not reported from any district except North Arcot where 1,659 acres were treated under this system; and Trichinopoly where an improvement felling was made over 240 acres in Shenmalai reserve, and over 200 acres in another reserve.

Attempts at systematising the removal of produce by establishing regular coupes, however, has been carried on in various districts, which will eventually improve the forests immensely by preventing haphazard felling. In *Salem* this has been carried on largely, partly by the agency of contractors, partly departmentally. The coupes sold to contractors had an area of 1,812 acres, and realised Rs. 10-7-0 an acre against Rs. 8-8-0 last year. The yield in material was about six tons an acre, the system being coppice under standard.

In *North Arcot*, 3,515 acres in various reserves were felled partly as pure coppice, partly as coppice under standard.

In *Nellore*, attempts have been made on a smaller scale in some inferior reserves, the return being only 1½ tons an acre in Gudur, a little over a ton in Vendodu, and less in Survaypalli.

In *South Arcot*, also the coupe system has been introduced with varying success.

Minor attempts at improvement by removal of prickly-pear, &c., are reported from several districts.

### Works of Improvement.

#### *Southern Circle.*

*Nilgiris.*—Creepers and undergrowth were cut in eight acres in Governor's Shola, and the sales more than covered the cost.

In Coonoor, an improvement felling was made in part of Sim's Park.

Some compartments of Bandy Shola were thinned.

Improvement fellings were made in Mudumalai and Benne, but there is no demand there for the produce.

*South Malabar.*—In the Nilambúr plantations, there is always heavy work under this head, consisting in weeding, pruning, parasite clearing, and thinning.

A sum of Rs. 5,125 was spent.

*South Canara.*—The remaining eighty acres of Ajarkadu were subjected to an improvement clearing during the year, at a nett cost of only about one rupee an acre.

Ten acres were cleared in Poitaji and ten acres in Kayerpalle firewood reserves.

The walls of these reserves were rebuilt.

## APPENDIX II.

### Roads.

The following is a list of the principal new roads completed during the year under report :—

*Ganjám.*—The Kullada-Tilsingi road and 24½ miles of inspection paths.

*Kistna*—

Roads—

(1) From Kakirala to Minsalapad (4 miles).
(2) From Srigeripad to Nittamgunta (8 miles).
(3) From Kakirala to Ravulapuram (6 miles).
(4) From Karalakshmimadugu to Rimidicherla (6 miles).
(5) The third section of the Kondapalli hill road (1 mile).

*Anantapur.*—Inspection paths in Jannavaripalli reserve.

*Bellary.*—A bridle-path on the ridge of the north-eastern range.

*Cuddapah.*—The Cuddapah-Kottimadugu road and addition to the Balapalli-Chintagunta road.

*Chingleput.*—A road (3¼ miles long) from the Varadayapalayam-Kálahasti Local Fund road to the bridle-path at the foot of the Kambakkam hill.

*North Arcot.*—The Kylasagiri road, a road to Morthana bungalow and the Karnatieghur road.

*Salem.*—The Nagaluthu road and the Kundukotta-Anchetti road extension.

*Madura.*—The Vannathiparai, Soranganar, and Arisaparai Inspection paths; the Kudraiyar road and Karandamalai preliminary trace.

*Tinnevelly.*—Road from Athithondu to Puliyuthu; Rajahpalayam bridle-path; Shembagadevi road; cart road from Chengalmari to Kaluthakaduvu; Kallimalai road; cart road in Nelliyuthu; cart road from Kariyar to Karuthalipudai; road from the foot of Kadiem hills to coupes; and conversion of Nadugani bridle-path into cart road.

*South Coimbatore.*—Opening a bridle-path from Mount Stuart to tramway and from Gopavari along the Bhaváni river; timber slip work; opening a new road from Ponnuthuthavalam to Keerapatti hills.

*North Malabar*—

Edathorai-Mudumalai road (5 miles).
Sultan's Battery to Odapallam road (6½ miles).
Doddapalem to Kurchat 2⅜ miles.
Kartikolam to Chedleth (18 miles).
Begur to Bavally bridge (4 miles).
Begur-Antersanta road to Buttakkalthittu (2 miles).
Buttakkalthittu to Coorg frontier (1½ miles).
Deviation to Begur Antersanta road (1⅜ miles).
Bridle-path from Brahamagiri lodge to Coorg frontier (¾ mile).

*South Malabar.*—A cart-track (3¼ miles) in Wálayár reserve.

### Buildings.

The following is a list of new buildings completed during the year under report :—

*Ganjám.*—A guard shedat Tarsingi and a rest-shed at Augusti Nowgam.

*Vizagapatam.*—An inspection shed at Peddapetta.

*Gódávari.*—Rest-houses at Bhadráchalam and Boddigudem and a guard's shed at Coringa.

*Bellary.*—Construction of residences for foresters and guards in several places.

*Kurnool.*—Range house at Atmakur.

*North Arcot.*—A bungalow on the Kylasagiri hill.

*Salem.*—The Alangayam Maharajagadai and Andiappanur rest-house extensions.

*Madura.*—Forest stations at Munar, Kanavoipatti, Kumili and Pambar; rest-houses at Timmarasanayakanur, High-waving Mountains and Machur, and out-houses at Mariyan Shola.

*Tinnevelly.*—Forest guards' and watchers' lines, Range-office at Kadayanallur; tanna at Panagudi.

*North Coimbatore.*—Range office, chipping shed and sandalwood store-shed at Satyamangalam; four Forest guards' huts, and Range office at Bhaváni.

*South Coimbatore.*—Construction of a forester's shed at Anaipadi; construction of two guard's houses and of clerks' and peons' quarters at Punachi; a building near Easalamanthorai, a guard's house at Iruttupallam, and an inspection shed at Sengalpalam.

*North Malabar.*—An out-house and stable at Kanoth; double serambis at Muthanga and Chedleth.

*South Malabar.*—Kalserambi in the Amarampalam reserve; additional room to the District Forest-office; Wálayár Forest guard's quarters.

*South Canara.*—The reconstruction of the Bandur tanna, and improvements to the Puttur Range office.

# APPENDIX I.

## *Nellore District.*

**STATEMENT showing the results of transport of wood by tramway compared with transport by country carts in Śrîharikóta Range.**

*Capital Account*, 1893–94.

| *Dr.* | Rs. | A. | P. | *Cr.* | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|
| To balance from 1892–93 .. .. .. | 16,206 | 9 | 5 | By depreciation at 6 per cent. .. .. | 1,300 | 10 | 4 |
| ,, cost of 1¼ miles of tramway materials received from North Arcot district .. | 5,470 | 14 | 2 | ,, balance .. .. .. .. .. | 20,376 | 13 | 3 |
| Total .. | 21,677 | 7 | 7 | Total .. | 21,677 | 7 | 7 |

*Revenue Account*, 1893–94.

| *Dr.* | Rs. | A. | P. | *Cr.* | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | 858 | 11 | 10 | By balance written off .. .. .. | 3,167 | 3 | 11 |
| ,, road-making repairs, &c. .. .. | 140 | 12 | 2 | | | | |
| ,, interest at 4 per cent. .. .. .. | 867 | 1 | 7 | | | | |
| ,, depreciation at 6 per cent. .. .. | 1,300 | 10 | 4 | | | | |
| Total .. | 3,167 | 3 | 11 | Total .. | 3,167 | 3 | 11 |

*Work done*—2,748 tons of fuel moved over 4½ miles = 12,366 ton miles.
*Actual cost of work*—12,366 ton miles at As. 4–1 per mile = Rs. 3,167–3–11.
*Estimated cost of carting*—12,366 ton miles at As. 5–3 per mile = Rs. 4,072–4–0.

*Note.*—The tramway plant from North Arcot having been received at the end of January 1894 and not having been laid out for some time after, the length of tramway is taken as 4½ miles:—

ABSTRACT.

| Year. | Profit. Rs. | A. | P. | Loss. Rs. | A. | P. |
|---|---|---|---|---|---|---|
| 1889–90 .. .. .. .. .. .. .. .. | .. | | | 829 | 15 | 11 |
| 1890–91 .. .. .. .. .. .. .. .. | .. | | | 701 | 12 | 9 |
| 1891–92 .. .. .. .. .. .. .. .. | .. | | | 1,063 | 15 | 9 |
| 1892–93 .. .. .. .. .. .. .. .. | 132 | 15 | 1 | .. | | |
| 1893–94 .. .. .. .. .. .. .. .. | 905 | 0 | 1 | .. | | |
| Total .. | 1,037 | 15 | 2 | 2,595 | 12 | 5 |
| Net loss up to the end of 1893–94 .. | .. | | | 1,557 | 13 | 3 |

## Casuarina Plantation Range.

*Capital Account*, 1893–94.

| *Dr.* | Rs. | A. | P. | *Cr.* | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|
| To balance from 1892–93 .. .. .. | 10,456 | 5 | 9 | By depreciation at 6 per cent. .. .. | 955 | 10 | 2 |
| Cost of 1¼ miles of tramway transferred from the North Arcot district. | 5,470 | 14 | 2 | Balance stock .. .. .. .. | 14,971 | 9 | 9 |
| Total .. | 15,927 | 3 | 11 | Total .. | 15,927 | 3 | 11 |

*Revenue Account*, 1893–94.

| *Dr.* | Rs. | A. | P. | *Cr.* | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | 266 | 13 | 1 | By balance written off .. .. .. | 1,859 | 8 | 8 |
| ,, interest at 4 per cent. .. .. .. | 637 | 1 | 5 | | | | |
| ,, depreciation at 6 per cent. .. .. | 955 | 10 | 2 | | | | |
| Total .. | 1,859 | 8 | 8 | Total .. | 1,859 | 8 | 8 |

*Work done*—1,998 tons casuarina wood carried over 2¾ miles = 5,494½ ton miles.
*Actual cost of work*—5,494½ ton miles at As 5–5 per mile = Rs. 1,859–8–8.
*Estimated cost of country carts*—5,494½ ton miles at As. 6–4 per mile = Rs. 2,163–2–3.

*Note.*—The tramway plant from North Arcot having been received at the end of January 1894 and not having been laid out for some time after, the length of tramway is taken as 2¾ miles as in past year—

ABSTRACT.

| | Profit. Rs. | A. | P. | Loss. Rs. | A. | P. |
|---|---|---|---|---|---|---|
| 1885–86 .. .. .. .. .. .. .. | 1,070 | 10 | 9 | .. | | |
| 1886–87 .. .. .. .. .. .. .. | 2,610 | 13 | 3 | .. | | |
| 1887–88 .. .. .. .. .. .. .. | .. | | | 569 | 14 | 1 |
| 1888–89 .. .. .. .. .. .. .. | 2,998 | 10 | 0 | .. | | |
| 1889–90 .. .. .. .. .. .. .. | .. | | | 164 | 12 | 9 |
| 1890–91 .. .. .. .. .. .. .. | 3,479 | 1 | 5 | .. | | |
| 1891–92 .. .. .. .. .. .. .. | 2,297 | 4 | 8 | .. | | |
| 1892–93 .. .. .. .. .. .. .. | 2,799 | 13 | 9 | .. | | |
| 1893–94 .. .. .. .. .. .. .. | 303 | 9 | 7 | .. | | |
| Total .. | 15,559 | 15 | 5 | 734 | 10 | 10 |
| Net profit at the end of 1893–94 .. | 14,825 | 4 | 7 | .. | | |

## *Cuddapah District.*

*Capital Account*, 1893–94.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1892–93 .. .. .. | | 13,129 | 5 | 2 | By depreciation at 6 per cent. .. .. | | 787 | 12 | 2 |
| | | | | | „ balance of stock .. .. .. | | 12,341 | 9 | 0 |
| Total .. | | 13,129 | 5 | 2 | Total .. | | 13,129 | 5 | 2 |

*Revenue Account*, 1893–94.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | | *Nil.* | | | By balance written off .. .. .. | | 539 | 8 | 9 |
| „ road repairs .. .. .. .. | | 14 | 6 | 0 | | | | | |
| „ depreciation .. .. .. .. | | *Nil.* | | | | | | | |
| „ interest at 4 per cent. .. .. .. | | 525 | 2 | 9 | | | | | |
| Total .. | | 539 | 8 | 9 | Total .. | | 539 | 8 | 9 |

The tramway was not used during the year as the Railway Company did not take any supply of engine fuel. Loss during the year Rs. 539-8-9.

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## *South Coimbatore District.*

**STATEMENT showing the results of transport of timber by tramway compared with transport by country carts on the Anamalai hills in the South Coimbatore district during 1893–94 (*vide* Board's Proceedings, Forest No. 274, dated 25th April 1894).**

*Capital Account*, 1893–94.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1892–93 .. .. .. | | 55,926 | 9 | 0 | By depreciation at 6 per cent. .. .. | | 3,376 | 6 | 6 |
| „ cost of nine brakes purchased .. | | 172 | 8 | 0 | „ balance of stock .. .. .. | | 52,897 | 1 | 8 |
| „ repairs to plant .. .. .. | | 119 | 4 | 8 | | | | | |
| „ cost of laying down a new line .. | | 55 | 2 | 6 | | | | | |
| Total .. | | 56,273 | 8 | 2 | Total .. | | 56,273 | 8 | 2 |

*Revenue Account*, 1893–94.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | | 4,158 | 9 | 7 | By balance written off .. .. .. | | 9,921 | 6 | 1 |
| „ depreciation at 6 per cent. .. .. | | 3,376 | 6 | 6 | | | | | |
| „ interest at 4 per cent. .. .. .. | | 2,250 | 15 | 0 | | | | | |
| „ repair to roadway .. .. .. | | 135 | 7 | 0 | | | | | |
| Total .. | | 9,921 | 6 | 1 | Total .. | | 9,921 | 6 | 1 |

*Work done*— 1,519 tons (4,861$\frac{5}{16}$ candies or 60,765 cubic feet) of timber moved over, four miles, 6,076 ton miles.

| | Rs. | A. | P. | Rs. | A. | P. |
|---|---|---|---|---|---|---|
| *Actual charge of carrying*—6,076 ton miles at Re. 1 10 2 = .. .. .. .. | | | | 9,921 | 6 | 1 |
| *Estimated cost by carts*—6,076 ton miles at „ 1 0 8 = .. .. | 6,329 | 2 | 8 | | | |
| Annual cost of maintaining cart road before construction of tramway (now saved) .. .. .. .. .. .. .. .. | 1,200 | 0 | 0 | | | |
| | | | | 7,529 | 2 | 8 |
| Loss .. | | | | 2,392 | 3 | 5 |

ABSTRACT.

| Year. | Profit. | | | Loss. | | | |
|---|---|---|---|---|---|---|---|
| | Rs. | A. | P. | Rs. | A. | P. | |
| 1889–90 .. .. .. .. | .. | | | 4,155 | 2 | 7 | *Appendix B.* (against profit and loss statement). Owing to a larger outturn of timber the annual loss is much reduced. |
| 1890–91 .. .. .. .. | .. | | | 3,048 | 9 | 5 | |
| 1891–92 .. .. .. .. | .. | | | 4,710 | 13 | 9 | |
| 1892–93 .. .. .. .. | .. | | | 4,718 | 4 | 5 | |
| 1893–94 .. .. .. .. | .. | | | 2,392 | 3 | 5 | |
| Total .. | .. | | | 19,025 | 1 | 7 | |

1 candy=12½ cubic feet.
1 ton = 40 cubic feet.

## Annual Form No. 59-A.

*Forest Department, Madras Presidency.*

Area of Reserved Forests, 1893–94.

| District. | Area on 1st July 1893. | | Added during the year. | Excluded or transferred to other heads. | Area on 30th June 1894. | |
|---|---|---|---|---|---|---|
| | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. |
| *Northern Circle.* | | | | | | |
| Ganjám ... ... ... ... | 2,756 | 113·68 | 12,060 | ... | 84,816 | 132·52 |
| Vizagapatam ... ... ... | 15,409 | 24·08 | 3,344 | ... | 18,753 | 29·30 |
| Gódávari ... ... ... ... | 282,798 | 441·87 | 35,870 | ... | 318,668 | 497·92 |
| Kistna ... ... ... ... | 405,144 | 633·04 | 1,767 | 5,796 | 401,115 | 626·74 |
| Anantapur ... ... ... ... | 64,622 | 100·97 | 130,317 | 1,774 | 193,165 | 301·82 |
| Bellary ... ... ... ... | 136,695 | 213·58 | 45,915 | 1 | 182,609 | 285·33 |
| Kurnool ... ... ... ... | 1,105,044 | 1,726·63 | 4,670 | ... | 1,109,714 | 1,733·93 |
| Total ... | 2,082,468 | 3,253·85 | 233,943 | 7,571 | 2,308,840 | 3,607·56 |
| *Central Circle.* | | | | | | |
| Nellore ... ... ... ... | 217,834 | 340·37 | 1,420 | ... | 219,254 | 342·58 |
| Cuddapah ... ... ... ... | 617,774 | 965·27 | 155,693 | 2,503 | 770,964 | 1,204·63 |
| Chingleput ... ... ... | 98,947 | 154·60 | 9,106 | ... | 108,053 | 168·83 |
| North Arcot ... ... ... | 440,601 | 688·44 | 161,941 | 2,979 | 599,563 | 936·81 |
| South Arcot ... ... ... | 246,590 | 385·30 | 14,095 | ... | 260,685 | 407·32 |
| Tanjore ... ... ... ... | 10,267 | 16·04 | 1,893 | ... | 12,160 | 19 |
| Trichinopoly ... ... .. | 121,966 | 190·57 | ... | ... | 121,966 | 190·57 |
| Salem ... ... ... ... | 618,416 | 966·28 | 38,705 | 25 | 657,096 | 1,026·71 |
| Total ... | 2,372,395 | 3,706·87 | 382,853 | 5,507 | 2,749,741 | 4,296·45 |
| *Southern Circle.* | | | | | | |
| Madura ... ... ... ... | 306,351 | 478·67 | 29,153 | ... | 335,504 | 524·22 |
| Tinnevelly ... .. ... | 262,837 | 410·68 | 88 | 5 | 262,920 | 410·81 |
| North Coimbatore ... ... | 317,806 | 496·57 | 218,230 | ... | 536,036 | 837·55 |
| South Coimbatore ... ... | 362,261 | 566·03 | ... | ... | 362,261 | 566·03 |
| Nilgiris ... ... ... ... | 149,412 | 233·46 | 9,669 | ... | 159,081 | 248·56 |
| North Malabar ... ... ... | 96,081 | 150·13 | ... | ... | 96,081 | 150·13 |
| South Malabar ... ... ... | 25,173 | 39·33 | ... | ... | 25,173 | 39·33 |
| South Canara ... ... ... | 63,939 | 99·91 | 3,860 | ... | 67,799 | 105·93 |
| Total ... | 1,583,860 | 2,474·78 | 261,000 | 5 | 1,844,855 | 2,882·56 |
| Grand Total ... | 6,038,723 | 9,435,·50 | 877,796 | 13,083 | 6,903,436 | 10,786·61 |

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## Annual Form No. 59-B.

*Forest Department, Madras Presidency.*

## Area of Reserved Lands, 1893–94.

| District. | Area on 1st July 1893. | | Added during the year. | Excluded or transferred to other heads. | Area on 30th June 1894. | |
|---|---|---|---|---|---|---|
| | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. |
| **Northern Circle.** | | | | | | |
| Ganjám ... ... ... ... | 289,607 | 452·51 | 4,627 | 12,280 | 281,954 | 440·55 |
| Vizagapatam ... ... ... | 178,816 | 279·40 | 8 | 3,227 | 175,597 | 274·37 |
| Gódávari ... ... ... ... | 366,000 | 571·87 | ... | 43,800 | 322,200 | 503·43 |
| Kistna ... ... ... ... | 142,116 | 222·06 | 208,449 | 1,767 | 348,798 | 544·99 |
| Anantapur ... ... ... ... | 191,300 | 298·91 | 29,114 | 130,829 | 89,585 | 139·98 |
| Bellary ... ... ... ... | 186,632 | 291·61 | 30,243 | 49,060 | 167,815 | 262·21 |
| Kurnool ... ... ... ... | 115,438 | 180·37 | 25,275 | ... | 140,713 | 219·87 |
| Total ... | 1,469,909 | 2,296·73 | 297,716 | 240,963 | 1,526,662 | 2,385·40 |
| **Central Circle.** | | | | | | |
| Nellore ... ... ... ... | 158,934 | 248·33 | 15,285 | 9,493 | 164,726 | 257·38 |
| Cuddapah ... ... ... ... | 705,286 | 1,102·00 | 61,341 | 163,617 | 603,010 | 942·20 |
| Chingleput ... ... ... ... | 36,655 | 57·28 | 17,671 | 9,358 | 44,968 | 70·26 |
| North Arcot ... ... ... | 196,965 | 307·76 | 48,665 | 163,018 | 82,612 | 129·08 |
| South Arcot ... ... ... | 266,621 | 416·60 | 29,293 | 17,071 | 278,843 | 435·70 |
| Tanjore ... ... ... ... | 5,446 | 8·51 | ... | 2,044 | 3,402 | 5·31 |
| Trichinopoly ... ... ... | 31,315 | 48·93 | 831 | 161 | 31,985 | 49·97 |
| Salem ... ... ... ... | 206,574 | 322·77 | 16,820 | 38,513 | 184,881 | 288·87 |
| Total ... | 1,607,796 | 2,512·18 | 189,906 | 403,275 | 1,394,427 | 2,178·79 |
| **Southern Circle.** | | | | | | |
| Madura ... ... ... ... | 101,047 | 157·89 | 10,680 | 30,328 | 81,399 | 127·18 |
| Tinnevelly ... ... ... ... | 813 | 1·27 | ... | ... | 813 | 1·27 |
| North Coimbatore ... ... ... | 797,925 | 1,246·76 | ... | 222,920 | 575,005 | 898·45 |
| South Coimbatore ... ... | 16,118 | 25·18 | ... | ... | 16,118 | 25·18 |
| Nilgiris ... ... ... ... | 112,254 | 175·40 | 18,299 | 9,679 | 120,874 | 188·86 |
| North Malabar ... ... ... | 77,506 | 121·10 | 1,568 | ... | 79,074 | 123·55 |
| South Malabar ... ... ... | 186,144 | 290·85 | 391 | 1,230 | 185,305 | 289·53 |
| South Canara ... ... ... | 591,070 | 923·54 | 67,968 | 15,083 | 643,955 | 1,006·19 |
| Total ... | 1,882,877 | 2,941·99 | 98,906 | 279,240 | 1,702,543 | 2,660·21 |
| Grand Total ... | 4,960,582 | 7,750·90 | 586,528 | 923,478 | 4,623,632 | 7,224·42 |

## ANNUAL FORM No. 60.

*Forest Department, Madras Presidency.*

AREA of Plantations.

| Districts. | Number of plantations. | On 1st July 1893. | | Added during 1893–94. | | On 30th June 1894. | |
|---|---|---|---|---|---|---|---|
| | | Area. | Cost. | Area. | Cost. | Total area. | Total cost. |
| *Regular plantations.* | | ACS. | RS. | ACS. | RS. | ACS. | RS. |
| Northern Circle — | | | | | | | |
| Ganjám | (a) 1 | (a) 3 | 272 | 65 | 3,717 | 68 | 3,989 |
| Vizagapatam | .. | .. | .. | .. | .. | .. | .. |
| Gódávari | 4 | 140 | 10,675 | 8 | 1,080 | 148 | 11,755 |
| Kistna | 16 / (b)— 1 | 796 / (b) +74 | 29,127 / (b) — 5,793 | 41 | 1,541 | 763 | 24,875 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. |
| Bellary | .. | .. | .. | .. | .. | .. | .. |
| Kurnool | .. | .. | .. | .. | .. | .. | .. |
| Total | 20 | 865 | 34,281 | 114 | 6,338 | 979 | 40,619 |
| Central Circle — | | | | | | | |
| Nellore | 11 | 2,916 | 2,53,743 | 102 | 1,810 | 3,018 | 2,55,553 |
| Cuddapah | 8 | 2,100 | 52,370 | .. | 462 | 2,100 | 52,832 |
| Chingleput | 6 | 396·09 / (c) —43·19 | 35,818 | .. | 1,075 | 352·9 | 36,893 |
| North Arcot | 5 | 1,035 | 1,19,721 | .. | 7,759 | 1,035 | 1,27,480 |
| South Arcot | 15 | 1,920·05 | 1,16,943 | .. | 3,500 | 1,920·05 | 1,20,443 |
| Tanjore | 7 | 1,308 | 20,038 | .. | 1,917 | 1,308 | 21,955 |
| Trichinopoly | 22 | 3,754·01 | 1,01,801 | .. | 2,284 | 3,754·01 | 1,04,085 |
| Salem | .. | .. | .. | .. | .. | .. | .. |
| Total | 74 | 13,385·96 | 7,00,434 | 102 | 18,807 | 13,487·96 | 7,19,241 |
| Southern Circle — | | | | | | | |
| Madura | 8 | 184·06 | 19,939 | 20 | 758 | 204·06 | 20,697 |
| Tinnevelly | .. | .. | .. | .. | .. | .. | .. |
| North Coimbatore | 1 | 97 | 35,729 | .. | 115 | 97 | 35,844 |
| South Coimbatore | 4 | 28·5 | 5,002 | .. | 1 | 28·5 | 5,003 |
| Nilgiris | 19 | 1,900·50 | 1,20,769 | 70 | 3,819 | 1,970·50 | 1,24,588 |
| North Malabar | 1 | 41·50 | 4,804 | .. | 765 | 41·50 | 5,569 |
| South Malabar | 16 | 4,199·75 | 2,70,349 | 119·58 | 7,727 | 4,319·33 | 2,78,076 |
| South Canara | 4 | 171·88 / (c) — ·63 | 24,615 | .. | 434 | 171·25 | 25,049 |
| Total | 53 | 6,622·56 | 4,81,207 | 209·58 | 13,619 | 6,832·14 | 4,94,826 |
| Grand Total | 147 | 20,873·52 | 12,15,922 | 425·58 | 38,764 | 21,299·10 | 12,54,686 |
| *Cultural operations.* | | | | | | | |
| Northern Circle — | | | | | | | |
| Direction | .. | .. | 279 | .. | .. | .. | 279 |
| Ganjám | 4 / (a) — 1 | 403 / (d) — 3 | 2,781 / (d) — 272 | 2·50 | 410 | 402·50 | 2,919 |
| Vizagapatam | .. | .. | .. | .. | .. | .. | .. |
| Gódávari | .. | .. | .. | .. | .. | .. | .. |
| Kistna | 5 / (b) + 1 | .. | 2,874 / (e) +5,793 | .. | 726 | .. | 9,393 |
| Anantapur | 6 | 52·16 | 942 | .. | 24 | 52·16 | 966 |
| Bellary | 3 / (f)+ 1 | ·4 | 846 | 258 | 506 | 262 | 1,352 |
| Kurnool | .. | .. | 138 | .. | 13 | .. | 151 |
| Total | 19 | 456·16 | 13,381 | 260·50 | 1,679 | 716·66 | 15,060 |
| Central Circle — | | | | | | | |
| Direction | .. | .. | 1,156 | .. | 13 | .. | 1,169 |
| Nellore | 8 / (f)+ 1 | 799 | 4,528 | 133 | 477 | 932 | 5,005 |
| Cuddapah | 15 / (f)+ 1 | 593 | 3,576 | .. | 324 | 593 | 3,900 |
| Chingleput | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | .. | .. | .. | .. | .. | .. | .. |
| South Arcot | 3 | 1,326 | 1,764 | .. | 34 | 1,326 | 1,798 |
| Tanjore | 20 | 1,155 | 2,129 | .. | 49 | 1,155 | 2,178 |
| Trichinopoly | 10 | Mls. 100 | 32,162 | .. | 495 | Mls.100 | 32,657 |
| Salem | .. | .. | .. | .. | .. | .. | .. |
| Total | 59 | 3,873 / Mls. 100 | 45,315 | 133 | 1,392 | 4,006 / Mls.100 | 46,707 |

(a) Shown by mistake under cultural operations in the return for 1892–93.
(b) Abandoned as a plantation and shown under cultural operations.
(c) By rectification of area.
(d) Transferred to regular plantations.
(e) Cost of the plantation transferred from regular to cultural operations during the year.
(f) Newly added during the year.

*Note.*—The areas under cultural operations have not been given by some of the Collectors.

ANNUAL FORM No. 60.

*Forest Department, Madras Presidency*—cont.

Area of Plantations—*cont.*

| Districts. | Number of plantations. | On 1st July 1893. | | Added during 1893–94. | | On 30th June 1894. | |
|---|---|---|---|---|---|---|---|
| | | Area. | Cost. | Area. | Cost. | Total area. | Total cost. |
| *Cultural operations*—cont. | | ACS. | RS. | ACS. | RS. | ACS. | RS. |
| Southern Circle— | | | | | | | |
| Madura .. .. .. .. | 2 | .. | 392 | .. | 2 | .. | 394 |
| Tinnevelly .. .. .. | 17 | 2,318·12 | 6,789 | 421·39 | 1,247 | 2,739·51 | 8,036 |
| North Coimbatore .. .. | .. | .. | .. | .. | .. | .. | .. |
| South Coimbatore .. .. | .. | .. | 508 | .. | .. | .. | 508 |
| Nilgiris .. .. .. .. | 5 (a) + 1 | 57 | 8,544 | 10 | 493 | 67 | 9,037 |
| North Malabar .. .. .. | 2 | 109 | 2,218 | .. | .. | 109 | 2,218 |
| South Malabar .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| South Canara .. .. .. | .. | .. | 38 | .. | .. | .. | 38 |
| Total .. | 27 | 2,484·12 | 18,489 | 431·39 | 1,742 | 2,915·51 | 20,231 |
| Grand Total .. | 105 | 6,813·28 Mls. 100 | 77,185 | 824·89 | 4,813 | 7,638·17 Mls. 100 | 81,998 |

(a) Newly added during the year.

*Note.*—The areas under cultural operations have not been given by some of the Collectors.

## ANNUAL FORM No. 61.

*Forest Department, Madras Presidency.*

## ANNUAL List of Topes and Experimental Gardens, 1893–94.

| District. | Number. | Area. | Cost | | Remarks. |
|---|---|---|---|---|---|
| | | | During year. | To end of year. | |
| *Northern Circle.* | | ACS. | RS. | RS. | |
| Ganjám .. .. .. .. | 7 | 101 | .. | 922 | |
| Vizagapatam .. .. .. | 3 | 78 | 120 | 577 | |
| Gódávari .. .. .. .. | .. | .. | .. | .. | |
| Kistna .. .. .. .. | 7 | 53 | 88 | 2,526 | |
| Anantapur .. .. .. .. | 95 | 2,885 | 950 | 7,569 | |
| Bellary .. .. .. .. | 31 | 243 | 142 | 1,543 | |
| Kurnool .. .. .. .. | 30 | 182 | 2 | 9,587 | |
| Total .. | 173 | 3,542 | 1,302 | 22,724 | |
| *Central Circle.* | | | | | |
| Nellore .. .. .. .. | 111 | 1,752 | .. | 38,044 | |
| Cuddapah .. .. .. | 71 | 1,630 | 699 | 60,892 | |
| Chingleput .. .. .. | (*a*) 10 | 98·99 | 139 | 9,248 | (*a*) Eleven in the previous year's return was an error. |
| North Arcot .. .. .. | (*b*) 71 | (*b*) 1,937·86 | 3,241 | 43,738 | (*b*) The 108 topes shown in excess in the previous year's return have been transferred to the departments which exercise real control over them. Only those under the control of the Forest Department have been retained. |
| South Arcot .. .. .. | (*c*) 103 | 475 | 30 | 8,997 | (*c*) Five topes newly taken over during the year from the Revenue Department. The area has yet to be ascertained. |
| Tanjore .. .. .. .. | (*d*) 6 | (*d*) 56 | .. | .. | (*d*) Ten topes of 97 acres were transferred to the departments which exercise real control and hence removed from this list. |
| Trichinopoly .. .. .. | 17 | 77 | 5 | 1,822 | |
| Salem .. .. .. .. | 263 | 3,061 | 65 | 2,00,363 | |
| Total .. | 652 | 9,087·85 | 4,179 | 3,63,104 | |
| *Southern Circle.* | | | | | |
| Madura .. .. .. .. | (*e*) 24 | (*e*) 91 | 10 | 18,893 | (*e*) Two topes newly added. |
| Tinnevelly .. .. .. | 28 | 106 | 85 | 5,262 | |
| North Coimbatore .. .. | 183 | 14,032 | .. | 29,067 | |
| South Coimbatore .. .. .. | 23 | 267·45 | .. | 5,361 | |
| Nilgiris .. .. .. .. | .. | .. | .. | .. | |
| North Malabar .. .. .. | 1 | 20 | 211 | 3,605 | |
| South Malabar .. .. .. | 1 | 20 | .. | 9 | |
| South Canara .. .. .. | .. | .. | .. | .. | |
| Total .. | 260 | 14,536·45 | 306 | 62,197 | |
| Grand Total .. | 1,085 | 27,166·30 | 5,787 | 4,48,025 | |

## ANNUAL FORM No. 62.

*Forest Department, Madras Presidency.*

## AREA of Forest Tracts protected from fire during 1893–94.

| District. | UP TO 30TH JUNE 1893. | | DURING DRY SEASON OF 1893–94. | | | | Total cost up to 30th June 1894. |
|---|---|---|---|---|---|---|---|
| | Area actually protected. | Total cost. | Area attempted to be protected. | Fires. | Area actually protected. | Amount expended. | |
| *Northern Circle.* | ACS. | RS. | ACS. | ACS. | ACS. | RS. | RS. |
| Ganjám .. .. .. | 128,306 | 9,729 | 133,500 | 6,345 | 127,155 | 1,613 | 11,342 |
| Vizagapatam .. .. | 62,065 | 1,965 | 68,076 | 1,480 | 66,596 | 530 | 2,495 |
| Gódávari .. .. | 137,799 | 4,278 | 138,839 | 12,532 | 126,307 | 1,299 | 5,577 |
| Kistna .. .. .. | 220,971 | 9,190 | 107,330 | 3,910 | 103,420 | 1,498 | 10,688 |
| Anantapur .. .. | (*a*) 152,061 | 16,133 | 152,061 | 13,990 | 138,071 | 2,114 | 18,247 |
| Bellary .. .. .. | 72,247 | 26,069 | 79,320 | 11,519 | 67,801 | 3,546 | 29,615 |
| Kurnool .. .. .. | 59,482 | 11,805 | 71,140 | 24,923 | 46,217 | 2,653 | 14,458 |
| Total .. | 832,931 | 79,169 | 750,266 | 74,699 | 675,567 | 13,253 | 92,422 |
| *Central Circle.* | | | | | | | |
| Nellore .. .. .. | 108,256 | 5,724 | 115,720 | 2,760 | 112,960 | 737 | 6,461 |
| Cuddapah .. .. | 427,386 | 52,871 | 528,020 | 52,497 | 475,523 | 5,229 | 58,100 |
| Chingleput .. .. | 23,776 | 5,063 | 23,873 | .. | 23,873 | 490 | 5,553 |
| North Arcot .. .. | (*b*) 631,920 | 30,788 | 681,850 | 14,327 | 667,523 | 5,241 | 36,029 |
| South Arcot .. .. | 127,926 | 9,940 | 123,779 | 1,161 | 122,618 | 693 | 10,633 |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. .. | (*a*) 82,660 | 3,032 | 82,660 | 400 | 82,260 | .. | 3,032 |
| Salem .. .. .. | 32,158 | 21,989 | 33,602 | 1,100 | 32,502 | 1,652 | 23,641 |
| Total .. | 1,434,082 | 1,29,407 | 1,589,504 | 72,245 | 1,517,259 | 14,042 | 1,43,449 |
| *Southern Circle.* | | | | | | | |
| Madura .. .. .. | 213,937 | 45,572 | 218,734 | 3,770 | 214,964 | 5,201 | 50,773 |
| Tinnevelly .. .. | 100,710 | 29,600 | 106,239 | 10,127 | 96,112 | 4,503 | 34,103 |
| North Coimbatore .. | 127,804 | 3,986 | 129,084 | 26,281 | 102,803 | 572 | 4,558 |
| South Coimbatore .. | 54,390 | 15,956 | 57,970 | 1,001 | 56,969 | 2,526 | 18,482 |
| Nilgiris .. .. .. | 219,557 | 22,894 | 223,087 | 1,544 | 221,543 | 1,645 | 24,539 |
| North Malabar .. .. | 32,187 | 9,773 | 33,462 | 1,000 | 32,462 | 1,225 | 10,998 |
| South Malabar .. .. | 103,474 | (*c*) 19,621 | 103,574 | .. | 103,574 | 2,304 | 21,925 |
| South Canara .. .. | 11,735 | 7,685 | 16,530 | 92 | 16,438 | 884 | 8,569 |
| Total .. | 863,894 | 1,55,087 | 888,680 | 43,815 | 844,865 | 18,860 | 1,73,947 |
| Grand Total .. | 3,130,907 | (*c*) 3,63,663 | 3,228,450 | 190,759 | 3,037,691 | 46,155 | 4,09,818 |

(*a*) The difference of area between the figure entered in the return for 1892–93 and that entered here is due to rectification of area.

(*b*) Correct area as now reported.

(*c*) Correct amount as reported by Collector.

## Annual Form No. 63.

*Forest Department, Madras Presidency.*

### Prosecution for breaches of Forest Rules during 1893–94.

| Districts. | Cases pending from 1892–93. | New cases of the year. | | | | | Total cases. | Disposed of during the year. | | | | | | | | | | Cases pending at close of the year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire. | Unauthorised felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. | | Acquittals. | | Compounded. | | Withdrawn. | | Total. | | |
| | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | | | | | | | | | | | | | | | | | | |
| Ganjám .. .. .. | 174 | .. | 138 | 41 | 11 | 190 | 364 | 104 | 546 | 91 | 386 | 42 | (a) .. | 44 | (a) .. | 281 | 932 | 83 |
| Vizagapatam .. .. .. | 26 | .. | 209 | 29 | 7 | 245 | 271 | 93 | 352 | 17 | 77 | 110 | 432 | 4 | 31 | 224 | 892 | 47 |
| Gódávari .. .. .. | 364 | .. | 76 | 24 | 1 | 101 | 465 | 290 | 384 | 92 | 120 | 37 | 97 | 24 | 28 | 443 | 629 | 22 |
| Kistna .. .. .. | 318 | 4 | 395 | 272 | 63 | 734 | 1,052 | 158 | 513 | 36 | 153 | 500 | 1,514 | 79 | 187 | 773 | 2,367 | 279 |
| Anantapur .. .. .. | (b) 10 | 6 | 234 | 61 | 9 | 310 | 320 | 151 | 308 | 54 | 217 | 91 | 252 | .. | .. | 296 | 777 | 24 |
| Bellary .. .. .. | 15 | 2 | 88 | 93 | 11 | 194 | 209 | 149 | 410 | 22 | 66 | 15 | 18 | 10 | 10 | 196 | 504 | 18 |
| Kurnool .. .. .. | 9 | 9 | 187 | 37 | 49 | 282 | 291 | 105 | 269 | 41 | 88 | 68 | 143 | 19 | 39 | 233 | 539 | 58 |
| Total .. | 916 | 21 | 1,327 | 557 | 151 | 2,056 | 2,972 | 1,050 | 2,782 | 353 | 1,107 | 863 | 2,456 | 180 | 295 | 2,446 | 6,640 | 526 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Nellore .. .. .. | 25 | .. | 116 | 40 | 7 | 163 | 188 | 92 | 277 | 14 | 79 | 45 | 101 | 12 | 65 | 163 | 522 | 25 |
| Cuddapah .. .. .. | 280 | 5 | 265 | 185 | 89 | 544 | 824 | 276 | 483 | 25 | 259 | 366 | 653 | 35 | (a) .. | 702 | 1,395 | 122 |
| Chingleput .. .. .. | 2 | 1 | 105 | 63 | 34 | 203 | 205 | 27 | 74 | 6 | 33 | 138 | 289 | 28 | 56 | 199 | 452 | 6 |
| North Arcot .. .. | 21 | 6 | 399 | 617 | 33 | 1,055 | 1,076 | 306 | 752 | 69 | 224 | 617 | 1,439 | 10 | 21 | 1,002 | 2,436 | 74 |
| South Arcot .. .. | 187 | 1 | 560 | 636 | 86 | 1,283 | 1,470 | 315 | 1,060 | 79 | 273 | 671 | 1,962 | 198 | 462 | 1,263 | 3,757 | 207 |
| Tanjore .. .. .. | 7 | .. | 27 | 12 | 4 | 43 | 50 | 13 | 73 | 3 | 12 | 16 | 42 | 10 | 44 | 42 | 171 | 8 |
| Trichinopoly .. .. | 103 | .. | 171 | 425 | 9 | 605 | 708 | 105 | 360 | 14 | 31 | 530 | 1,096 | 25 | 55 | 674 | 1,542 | 34 |
| Salem .. .. .. | 43 | 3 | 367 | 377 | 87 | 834 | 877 | 382 | 1,449 | 156 | 591 | 246 | 934 | 31 | 117 | 815 | 3,091 | 62 |
| Total .. | 668 | 16 | 2,010 | 2,355 | 349 | 4,730 | 5,398 | 1,516 | 4,528 | 366 | 1,502 | 2,629 | 6,516 | 349 | 820 | 4,860 | 13,366 | 538 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | |
| Madura .. .. .. | 11 | .. | 38 | 16 | 19 | 73 | 84 | 63 | 183 | 12 | 42 | 3 | (d) .. | .. | .. | 78 | 225 | 6 |
| Tinnevelly .. .. .. | 10 | 10 | 275 | 280 | 50 | 615 | 625 | 159 | 327 | 39 | 72 | 236 | 400 | 132 | 231 | 566 | 1,030 | 59 |
| North Coimbatore .. .. | 109 | 1 | 99 | 185 | 16 | 301 | 410 | 91 | 248 | 44 | 207 | 234 | 663 | 22 | 57 | 391 | 1,175 | 19 |
| South Coimbatore .. .. | 33 | 2 | 137 | 159 | 40 | 338 | 371 | 82 | 254 | 27 | 176 | 196 | 609 | 36 | 75 | 341 | 1,114 | 30 |
| Nilgiris .. .. .. | 27 | .. | 64 | 81 | 1 | 146 | 173 | 43 | 98 | 6 | 10 | 85 | 184 | 21 | 37 | 155 | 329 | 18 |
| North Malabar .. .. | 11 | 1 | 14 | 21 | 21 | 57 | 68 | 23 | 50 | 1 | 13 | 32 | 48 | .. | .. | 56 | 111 | 12 |
| South Malabar .. .. | .. | .. | 6 | 1 | 9 | 16 | 16 | 1 | 21 | .. | (c) 1 | 3 | 7 | .. | .. | 4 | 29 | 12 |
| South Canara .. .. | 180 | 2 | 1,455 | .. | 218 | 1,675 | 1,855 | 284 | 480 | 71 | 153 | 1,028 | 1,222 | 54 | 113 | 1,437 | 1,968 | 418 |
| Total .. | 381 | 16 | 2,088 | 743 | 374 | 3,221 | 3,602 | 746 | 1,661 | 200 | 674 | 1,817 | 3,133 | 265 | 513 | 3,028 | 5,981 | 574 |
| Grand Total .. | 1,965 | 53 | 5,425 | 3,655 | 874 | 10,007 | 11,972 | 3,312 | 8,971 | 919 | 3,283 | 5,309 | 12,105 | 794 | 1,628 | 10,334 | 25,987 | 1,638 |

(a) The number of persons concerned in these cases is not shown separately by the Collector but is included in the number under convictions and acquittals.
(b) Correct figures as now reported by the Collector. (c) Concerned in a case shown under convictions. (d) Not given by the Collector.

## Annual Form No. 64.

*Forest Department, Madras Presidency, Northern Circle.*

Summary of Revenue of the different districts for the forest year 1893–94.

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | |
| (*a*) Timber .. .. .. | .. | 441 | 1,000 | 571 | 11 | 4,438 | .. | .. | 6,461 |
| (*b*) Firewood and charcoal .. | .. | .. | 100 | 2,912 | 439 | 777 | 675 | .. | 4,903 |
| (*c*) Bamboos .. .. .. | .. | 3 | .. | .. | .. | .. | .. | .. | 3 |
| (*d*) Sandal-wood .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Grass and other minor produce .. .. .. | .. | .. | 452 | 995 | 65 | 9 | 1,200 | 511 | 3,232 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | |
| (*a*) Timber .. .. .. | .. | 1,01,636 | 4,127 | 38,591 | 25,657 | 32,125 | 6,197 | 6,945 | 2,15,278 |
| (*b*) Firewood and charcoal .. | .. | 8,145 | 7,080 | 8,302 | 15,360 | 7,803 | 5,099 | 2,627 | 54,416 |
| (*c*) Bamboos .. .. | .. | 7,493 | 6,856 | 55,840 | 728 | 16,508 | 1,648 | 145 | 89,218 |
| (*d*) Grazing and fodder grass | .. | 2,801 | 190 | 3,359 | 74,087 | 11,077 | 2,920 | 2,459 | 96,893 |
| (*e*) Other minor produce .. | .. | 3,634 | 3,835 | 4,795 | 16,319 | 19,414 | 28,871 | 40,871 | 1,17,739 |
| III. Confiscated drift and waif-wood. | .. | 379 | 89 | 3,511 | 446 | 2,345 | 219 | 53 | 7,042 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | |
| (*a*) Fines and forfeitures .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Refunds .. .. .. | .. | 55 | 70 | 32 | 25 | .. | 3 | .. | 185 |
| (*c*) Other sources .. .. | .. | 436 | 752 | 164 | 5,363 | 894 | 626 | 709 | 8,944 |
| Total Receipts .. | .. | 1,25,023 | 24,551 | 1,19,072 | 1,38,500 | 95,390 | 47,458 | 54,320 | 6,04,314 |

Madras,
31st August 1894.

(Signed) R. Morris,
Deputy Accountant-General.

ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Central Circle.*

Summary of Revenue of the different districts for the forest year 1893–94.

| Budget heads. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. .. | .. | 16 | 12,145 | .. | 2,629 | 509 | 969 | .. | 8 | 16,276 |
| (*b*) Firewood and charcoal .. | .. | 33,693 | 427 | 291 | 15,262 | 7,232 | 18,656 | 16,774 | .. | 92,335 |
| (*c*) Bamboos .. | .. | .. | 78 | .. | 23 | .. | 78 | .. | .. | 179 |
| (*d*) Sandal-wood .. | .. | .. | .. | .. | 343 | 114 | 11,990 | .. | .. | 12,447 |
| (*e*) Grass and other minor produce. | .. | 4,192 | 181 | .. | .. | .. | 5 | 67 | .. | 4,445 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | |
| (*a*) Timber .. | .. | 9,562 | 13,079 | 4,715 | 2,916 | 992 | 22,171 | 9,156 | 1,025 | 63,616 |
| (*b*) Firewood and charcoal .. | .. | 4,173 | 16,973 | 5,919 | 16,954 | 20,812 | 34,495 | 10,829 | 4,960 | 1,15,115 |
| (*c*) Bamboos .. | .. | 90 | 6,567 | 230 | 22,633 | 3,089 | 29,020 | 3,740 | 254 | 65,623 |
| (*d*) Grazing and fodder grass.. | .. | 15,584 | 10,426 | 5,785 | 42,782 | 15,173 | 19,654 | 5,442 | 482 | 1,15,328 |
| (*e*) Other minor produce .. | .. | 30,556 | 77,154 | 9,192 | 32,280 | 28,741 | 46,874 | 33,397 | 4,079 | 2,62,273 |
| III. Confiscated drift and waif-wood .. .. | .. | 162 | 413 | 64 | 683 | 1,008 | 871 | 80 | 113 | 3,394 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | | |
| (*a*) Fines and forfeitures .. .. | .. | .. | .. | .. | 399 | 83 | 552 | 100 | .. | 1,134 |
| (*b*) Refunds .. .. | 22 | 1 | 5 | 4 | 61 | 57 | 78 | 2 | 4 | 234 |
| (*c*) Other sources .. | 48 | 209 | 2,033 | 1,036 | 9,224 | 6,476 | 2,711 | 2,136 | 179 | 24,052 |
| Total Receipts .. | 70 | 98,238 | 1,39,481 | 27,236 | 1,46,189 | 84,286 | 1,88,124 | 81,723 | 11,104 | 7,76,451 |

MADRAS,
31st August 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Southern Circle.*

Summary of Revenue of the different districts for the forest year 1893–94.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. .. | .. | 12,357 | 76 | 50,775 | 6,270 | 7,630 | 22,183 | 64,352 | 8,469 | 1,72,112 |
| (*b*) Firewood and charcoal .. | .. | 20,568 | .. | 1,802 | 7,540 | 7,469 | .. | 100 | 2,091 | 39,570 |
| (*c*) Bamboos .. | .. | .. | .. | 20 | 299 | .. | .. | 1,597 | 28 | 1,944 |
| (*d*) Sandal-wood .. | .. | 2,070 | 9,034 | 2 | .. | .. | .. | .. | .. | 11,106 |
| (*e*) Grass and other minor produce. | .. | 68 | 8 | 7,678 | .. | 142 | 45 | 322 | 7,641 | 15,904 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | |
| (*a*) Timber .. | .. | 769 | 7,175 | 4,907 | 13,116 | 1,687 | 4,224 | 3,885 | 1,236 | 36,999 |
| (*b*) Firewood and charcoal .. | .. | 1,043 | 8,288 | 9,317 | 5,672 | 42,166 | 25 | 2,725 | 1,041 | 70,277 |
| (*c*) Bamboos .. | .. | 2,553 | 9,780 | 4,209 | 1,253 | 498 | 479 | 1,293 | 854 | 20,919 |
| (*d*) Grazing and fodder grass.. | .. | 7,420 | 27,588 | 6,286 | 3,075 | 5,311 | 1,226 | 79 | 3,685 | 54,670 |
| (*e*) Other minor produce .. | .. | 649 | 27,087 | 5,158 | 31,193 | 18,412 | 2,323 | 2,116 | 23,399 | 1,10,337 |
| III. Confiscated drift and waif-wood .. .. | .. | 323 | 322 | 137 | 144 | 213 | 3 | 1,589 | 738 | 3,469 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | | |
| (*a*) Fines and forfeitures .. .. | .. | .. | 33 | 80 | 120 | 195 | .. | 5 | 191 | 624 |
| (*b*) Refunds .. | 42 | 8 | 34 | 90 | 8 | 48 | .. | 1 | 13 | 244 |
| (*c*) Other sources .. | .. | 4,939 | 4,192 | 2,397 | 853 | 1,715 | 2,429 | 4,293 | 3,957 | 24,775 |
| Total Receipts .. | 42 | 52,767 | 93,617 | 92,858 | 69,543 | 85,486 | 32,937 | 82,357 | 53,343 | 5,62,950 |

MADRAS,
12th October 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Northern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1893-94.

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | |
| (*a*) Timber .. .. | .. | 3,468 | 57 | 77 | 2 | 2,306 | .. | .. | 5,910 |
| (*b*) Firewood and charcoal .. .. | .. | .. | 62 | 122 | 1,143 | 244 | 85 | .. | 1,656 |
| (*c*) Bamboos .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*d*) Sandal-wood .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Grass and other minor produce .. | .. | .. | 88 | 137 | 32 | 50 | 833 | 131 | 1,271 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. .. .. | .. | 4,607 | 2,504 | 6,715 | 5,901 | 8,705 | 637 | 1,455 | 30,524 |
| III. Confiscated, drift and waif-wood .. .. .. | .. | 757 | 11 | 862 | 7 | 448 | 4 | .. | 2,089 |
| IV. Revenue from forests not managed by Government .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests, and payments to share-holders in forests managed by Government .. .. | .. | .. | .. | .. | .. | .. | 10,000 | .. | 10,000 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Feed and keep of cattle .. .. | 434 | 736 | 178 | 119 | .. | .. | .. | .. | 1,467 |
| (*c*) Stores, tools and plant .. .. | .. | 119 | 68 | 569 | 611 | 41 | 25 | 277 | 1,710 |
| VII. Communications and buildings— | | | | | | | | | |
| (*a*) Roads and bridges.. | .. | 1,704 | 37 | .. | 3,186 | 382 | 808 | 155 | 6,272 |
| (*b*) Buildings .. .. | .. | 1,576 | 1,255 | 1,497 | 2,558 | 2,132 | 1,389 | 1,157 | 11,564 |
| (*c*) Other works .. | .. | 163 | 7 | .. | 718 | .. | .. | .. | 888 |
| VIII. Demarcations, improvement and extension of forests— | | | | | | | | | |
| (*a*) Demarcation .. | .. | 1,452 | 1,721 | 254 | 1,946 | 2,176 | 1,378 | 963 | 9,890 |
| (*b*) Compensation for land and rights .. | .. | .. | 590 | .. | .. | .. | 119 | 182 | 891 |
| (*c*) Surveys and working plans .. .. | 28 | 886 | 644 | 835 | 1,189 | 1,160 | 779 | 1,318 | 6,839 |
| (*d*) Plantations .. | .. | 4,127 | 120 | 1,080 | 2,355 | 15 | 648 | 974 | 9,319 |
| (*e*) Protection from fire. | .. | 1,613 | 530 | 1,299 | 1,498 | 2,653 | 3,546 | 2,114 | 13,253 |
| (*f*) Other works .. | .. | 565 | 2 | 1 | 2,811 | .. | 1,657 | 317 | 5,353 |
| IX. Miscellaneous— | | | | | | | | | |
| (*a*) Refunds .. .. | .. | 20 | 25 | 360 | 1,586 | 137 | 678 | 133 | 2,939 |
| (*b*) Law charges .. | 43 | .. | .. | 101 | 5 | .. | .. | .. | 149 |
| (*c*) Other charges .. | 33 | 1,369 | 95 | 108 | 1,695 | 118 | .. | .. | 3,418 |
| Total A.—Conservancy and Works. | 538 | 23,162 | 7,994 | 14,136 | 27,243 | 20,567 | 22,586 | 9,176 | 1,25,402 |

MADRAS,
1st September 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Central Circle.*

Summary of Expenditure of the different districts for the forest year 1893–94.

| Budget heads. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. | South Arcot. | Salem | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 52 | 7,117 | .. | 865 | 123 | 1,162 | .. | .. | 9,319 |
| (*b*) Firewood and charcoal .. | .. | 21,111 | 222 | 21 | 11,540 | 3,568 | 12,721 | 9,526 | 6 | 58,715 |
| (*c*) Bamboos .. | .. | .. | 45 | .. | 8 | .. | 44 | .. | .. | 97 |
| (*d*) Sandal-wood .. | .. | .. | .. | .. | .. | 47 | 659 | .. | .. | 706 |
| (*e*) Grass and other minor produce .. | .. | 1,718 | 190 | .. | .. | .. | .. | 12 | .. | 1,920 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. | .. | 353 | 6,616 | 1,626 | 1,162 | 2,121 | 9,938 | 2,559 | 488 | 24,863 |
| III. Confiscated, drift and waif-wood .. .. | .. | 3 | 66 | .. | 4 | 39 | 154 | 9 | 8 | 283 |
| IV. Revenue from forests not managed by Government .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests, and payments to shareholders in forests managed by Government .. .. .. | .. | .. | .. | .. | .. | .. | 10 | .. | .. | 10 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Feed and keep of cattle ... | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Stores, tools and plant .. | 3 | 955 | 13 | 240 | 10 | 129 | 974 | 61 | 17 | 2,402 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | .. | 394 | 1,013 | 5,441 | 413 | 895 | 350 | .. | 8,506 |
| (*b*) Buildings .. | .. | 118 | 736 | 445 | 2,860 | 1,193 | 1,319 | 300 | 10 | 6,981 |
| (*c*) Other works .. | 1 | .. | .. | .. | 972 | 43 | .. | .. | .. | 1,016 |
| VIII. Demarcations, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 567 | 2,591 | 2,994 | 6,253 | 6,629 | 4,693 | 983 | 10 | 24,720 |
| (*b*) Compensation for land and rights .. | .. | 183 | 635 | 606 | 1,456 | 17 | 26 | .. | .. | 2,923 |
| (*c*) Surveys and working plans .. | 60501 | 465 | 915 | 366 | 540 | 407 | 2,666 | 172 | 301 | *66,333 |
| (*d*) Plantations .. | 13 | 2,287 | 1,485 | 1,214 | 11,000 | 3,564 | 65 | 2,784 | 1,966 | 24,378 |
| (*e*) Protection from fire .. .. | .. | 737 | 5,229 | 490 | 5,241 | 693 | 1,652 | .. | .. | 14,042 |
| (*f*) Other works ... | .. | 937 | 802 | 2,641 | 8,170 | 4,237 | 7,403 | 4,257 | 1,919 | 30,366 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. .. | .. | 837 | 398 | 234 | 148 | 98 | 2,242 | 208 | 51 | 4,216 |
| (*b*) Law charges .. | .. | .. | 9 | .. | 27 | 105 | 476 | 1 | .. | 618 |
| (*c*) Other charges .. | 15 | .. | 9 | .. | 108 | 30 | 102 | 1 | 25 | 290 |
| Total A.—Conservancy and Works .. | 60,533 | 30,323 | 27,472 | 11,890 | 55,805 | 23,456 | 47,201 | 21,223 | 4,801 | 2,82,704 |

* This is inclusive of Rs. 59,713 being the probable amount of forest topographical survey charges incurred during 1893–94.

MADRAS,
6th September 1894.

(Signed) M. BHUTTACHARYA,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Southern Circle.*

Summary of Expenditure of the different districts for the forest year 1893-94.

| Budget heads | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 2,322 | .. | 23,009 | 5,021 | 7,848 | 1,703 | 9,105 | 7,275 | 56,283 |
| (*b*) Firewood and charcoal .. | .. | 17,281 | 111 | 1,242 | 6,272 | 3,603 | .. | 5 | 735 | 29,249 |
| (*c*) Bamboos .. | .. | .. | .. | 8 | 248 | .. | .. | .. | 14 | 270 |
| (*d*) Sandal-wood .. | .. | 623 | 3,163 | .. | .. | .. | .. | .. | .. | 3,486 |
| (*e*) Grass and other minor produce .. .. | .. | 167 | 172 | 4,860 | .. | 5 | 6 | 35 | 3,731 | 8,776 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. .. | .. | 1,423 | 8,380 | 3,676 | 1,530 | 3,064 | 356 | 58 | 3,527 | 22,014 |
| III. Confiscated drift and waif-wood .. .. | .. | 38 | 77 | 8 | 7 | 4 | 1 | .. | 4 | 139 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests, and payments to shareholders in forests managed by Government .. .. .. | .. | 4,500 | .. | 2,500 | .. | .. | .. | 1,074 | .. | 8,074 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | 500 | .. | 447 | .. | .. | 274 | 314 | .. | 1,535 |
| (*b*) Feed and keep of cattle .. | .. | 1,025 | .. | 4,652 | .. | .. | 3,738 | 7,257 | 246 | 16,918 |
| (*c*) Stores, tools and plant .. | .. | 250 | .. | 429 | 719 | 1,193 | 236 | 198 | 303 | 3,328 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | 1,660 | 5,297 | 3,369 | 2,453 | 9,624 | 2,691 | 1,549 | .. | 26,643 |
| (*b*) Buildings .. | .. | 1,174 | 2,190 | 2,438 | 3,578 | 2,522 | 854 | 2,105 | 823 | 15,684 |
| (*c*) Other works .. | .. | 159 | 70 | 326 | 479 | 48 | 157 | 35 | 426 | 1,700 |
| VIII. Demarcations, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 3,152 | 3,425 | 1,471 | 1,510 | 2,634 | 1,375 | 391 | 1,003 | 14,961 |
| (*b*) Compensation for land and rights .. | .. | 347 | .. | .. | .. | .. | 2,000 | .. | 46 | 2,393 |
| (*c*) Surveys and working plans .. | .. | 353 | 379 | .. | 431 | 1,106 | 354 | 878 | 2,552 | 6,053 |
| (*d*) Plantations .. | .. | 4,312 | 115 | 1 | 770 | 1,332 | 976 | 7,727 | 434 | 15,667 |
| (*e*) Protection from fire .. .. | .. | 1,645 | 572 | 2,526 | 5,201 | 4,503 | 1,225 | 2,304 | 884 | 18,860 |
| (*f*) Other works .. | .. | 572 | 462 | 1,347 | 3,861 | 4,551 | 474 | 908 | 1,596 | 13,771 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. | .. | 13 | 330 | 119 | 108 | 1,581 | 26 | .. | 98 | 2,275 |
| (*b*) Law charges .. | .. | .. | .. | 8 | 218 | .. | 487 | 15 | .. | 728 |
| (*c*) Other charges .. | 9 | 2,805 | 12 | 570 | 108 | 2 | 78 | 40 | 1,203 | 4,827 |
| Total A.—Conservancy and works .. | 9 | 44,021 | 24,755 | 53,006 | 32,514 | 43,620 | 17,011 | 33,998 | 24,700 | 2,73,634 |

MADRAS,
12th October 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## Annual Form No. 64.

*Forest Department, Madras Presidency, Northern Circle.*

**Summary of Expenditure of the different districts for the forest year 1893-94.**

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Brought forward, Total A. "Conservancy and works" .. | 538 | 23,162 | 7,994 | 14,136 | 27,243 | 20,567 | 22,586 | 9,176 | 1,25,402 |
| I. Salaries— | | | | | | | | | |
| (*a*) Conservators .. .. | 16,197 | .. | .. | .. | .. | .. | .. | .. | 16,197 |
| (*b*) Superior officers .. | 11,659 | 10,132 | 5,250 | 9,325 | 12,649 | 9,362 | 3,000 | 5,682 | 67,059 |
| (*c*) Subordinate forest and depôt establishments.. | 987 | 4,147 | 2,603 | 7,579 | 6,769 | 8,004 | 5,396 | 5,015 | 40,500 |
| (*d*) Office establishments .. | 10,128 | 1,836 | 971 | 1,905 | 2,637 | 2,365 | 1,312 | 1,457 | 22,611 |
| (*e*) Deputation and special allowances .. .. | 2,084 | 1,148 | 450 | 468 | 1,079 | 1,216 | .. | 753 | 7,198 |
| II. Travelling allowances— | | | | | | | | | |
| (*a*) Conservators .. .. | 2,832 | .. | .. | .. | .. | .. | .. | .. | 2,832 |
| (*b*) Superior officers .. | 2,983 | 2,193 | 877 | 1,904 | 2,249 | 2,092 | 818 | 1,066 | 14,182 |
| (*c*) Subordinate forest and depôt establishments.. | 714 | 1,400 | 691 | 2,807 | 1,953 | 3,113 | 1,068 | 1,170 | 12,916 |
| (*d*) Office establishments .. | 1,846 | 309 | 114 | 324 | 975 | 619 | 175 | 333 | 4,695 |
| III. Contingencies— | | | | | | | | | |
| (*a*) Stationery .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. .. | 705 | 117 | 131 | 179 | 708 | 475 | 210 | 84 | 2,609 |
| (*c*) Rents, rates and taxes.. | 478 | 31 | 295 | 226 | 1 | 48 | 94 | 34 | 1,207 |
| (*d*) Pay of police guards .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. .. | 512 | 362 | 186 | 563 | 1,012 | 794 | 459 | 353 | 4,241 |
| (*f*) Sundries .. .. | 721 | 425 | 494 | 811 | 858 | 803 | 398 | 560 | 5,070 |
| Total B.—"Establishments" .. | 51,846 | 22,100 | 12,062 | 26,091 | 30,690 | 28,891 | 12,930 | 16,507 | 2,01,317 |
| Grand Total of Expenditure .. | 52,384 | 45,262 | 20,056 | 40,227 | 58,133 | 49,458 | 35,516 | 25,683 | 3,26,719 |

Madras,
3rd September 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Central Circle.*

Summary of Expenditure of the different districts for the forest year 1893–94.

| Budget heads. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Brought forward, Total A. "Conservancy and Works" .. .. | 60,533 | 30,323 | 27,472 | 11,890 | 55,805 | 23,456 | 47,201 | 21,223 | 4,801 | 2,82,704 |
| I. Salaries— | | | | | | | | | | |
| (*a*) Conservators .. | 19,200 | .. | .. | .. | .. | .. | .. | .. | .. | 19,200 |
| (*b*) Superior officers .. | 12,040 | 7,800 | 9,417 | 9,123 | 5,990 | 11,100 | 13,800 | 11,415 | .. | 80,685 |
| (*c*) Subordinate forest and depôt establishments .. | 3,295 | 6,569 | 9,487 | 2,958 | 9,529 | 10,784 | 11,552 | 3,818 | 1,118 | 59,110 |
| (*d*) Office establishments | 11,046 | 2,287 | 2,956 | 1,408 | 2,849 | 2,796 | 2,778 | 2,242 | 748 | 29,110 |
| (*e*) Exchange compensation allowances. | 2,452 | 957 | 773 | 1,246 | 601 | 1,177 | 1,691 | 627 | .. | 9,524 |
| II. Travelling allowances— | | | | | | | | | | |
| (*a*) Conservators .. | 2,511 | .. | .. | .. | .. | .. | .. | .. | .. | 2,511 |
| (*b*) Superior officers .. | 3,833 | 1,268 | 1,850 | 1,600 | 1,850 | 1,402 | 2,629 | 1,100 | 539 | 16,071 |
| (*c*) Subordinate forest and depôt establishments .. | 1,972 | 1,632 | 2,211 | 851 | 3,283 | 2,937 | 4,276 | 1,407 | 309 | 18,878 |
| (*d*) Office establishments | 1,897 | 223 | 464 | 288 | 709 | 352 | 710 | 406 | 157 | 5,206 |
| III. Contingencies— | | | | | | | | | | |
| (*a*) Stationery .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. | 664 | 202 | 151 | 100 | 138 | 239 | 414 | 102 | 69 | 2,079 |
| (*c*) Rents, rates and taxes .. .. | .. | .. | 63 | 7 | 6 | 615 | 93 | 109 | 16 | 909 |
| (*d*) Pay of police guards .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. | 557 | 258 | 424 | 355 | 1,136 | 796 | 1,288 | 398 | 144 | 5,356 |
| (*f*) Sundries .. .. | 895 | 547 | 375 | 9 | 719 | 537 | 400 | 258 | 193 | 3,933 |
| Total B.—"Establishments" .. .. | 60,362 | 21,743 | 28,171 | 17,945 | 26,810 | 32,735 | 39,631 | 21,882 | 3,293 | 2,52,572 |
| Grand Total of Expenditure .. .. | 1,20,895 | 52,066 | 55,643 | 29,835 | 82,615 | 56,191 | 86,832 | 43,105 | 8,094 | 5,35,276 |

MADRAS,
6th September 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Southern Circle.*

Summary of Expenditure of the different districts for the forest year 1893–94.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Brought forward, Total A. "Conservancy and Works" .. .. | 9 | 44,021 | 24,755 | 53,006 | 32,514 | 43,620 | 17,011 | 33,998 | 24,700 | 2,73,634 |
| I. Salaries— | | | | | | | | | | |
| (*a*) Conservators .. | 15,312 | .. | 80 | .. | .. | .. | .. | .. | .. | 15,392 |
| (*b*) Superior officers .. | 4,422 | 10,480 | 11,324 | 5,245 | 9,781 | 7,500 | 5,229 | 9,600 | 6,805 | 70,386 |
| (*c*) Subordinate forest and depôt establishments | 3,658 | 8,197 | 5,624 | 8,600 | 8,888 | 7,695 | 6,020 | 4,621 | 6,004 | 59,307 |
| (*d*) Office establishments .. .. | 8,352 | 2,784 | 2,907 | 2,857 | 2,283 | 2,788 | 2,586 | 1,686 | 3,265 | 29,508 |
| (*e*) Deputation and special allowances .. | 1,898 | 1,322 | 1,297 | 618 | 943 | 662 | 411 | .. | 788 | 7,939 |
| II. Travelling allowances— | | | | | | | | | | |
| (*a*) Conservators .. | 2,349 | .. | .. | .. | .. | .. | .. | .. | .. | 2,349 |
| (*b*) Superior officers .. | 1,260 | 1,586 | 2,302 | 1,429 | 1,708 | 2,185 | 732 | 1,210 | 1,248 | 13,660 |
| (*c*) Subordinate forest and depôt establishments .. | 2,354 | 2,073 | 1,779 | 2,408 | 2,548 | 1,917 | 1,520 | 1,179 | 2,097 | 17,875 |
| (*d*) Office establishments .. .. | 1,009 | 87 | 360 | 415 | 500 | 434 | 136 | 124 | 565 | 3,630 |
| III. Contingencies— | | | | | | | | | | |
| (*a*) Stationery .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. | 465 | .. | 234 | 159 | 231 | 321 | 58 | .. | 415 | 1,883 |
| (*c*) Rents, rates and taxes .. .. | 480 | 104 | 172 | 89 | 14 | 70 | .. | 5 | 60 | 994 |
| (*d*) Pay of police guards .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. | 601 | 234 | 549 | 347 | 600 | 745 | 232 | 177 | 995 | 4,480 |
| (*f*) Sundries .. .. | 2,262 | 523 | 603 | 91 | 167 | 820 | 352 | 159 | 402 | 5,379 |
| Total B.—"Establishments" .. .. .. | 44,422 | 27,390 | 27,231 | 22,258 | 27,663 | 25,137 | 17,276 | 18,761 | 22,644 | 2,32,782 |
| Grand Total of Expenditure .. .. .. | 44,431 | 71,411 | 51,986 | 75,264 | 60,177 | 68,757 | 34,287 | 52,759 | 47,344 | 5,06,416 |

MADRAS,
12th October 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## ANNUAL FORM NO. 64.

*Forest Department, Madras Presidency.*

## GRAND TOTAL of the Presidency.

| Budget heads. Receipts. | | Budget heads. Expenditure—A. Conservancy and Works. | | Budget heads. Expenditure—B. Establishments. | |
|---|---|---|---|---|---|
| | RS. | | RS. | | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | I. Timber and other produce removed from the forests by Government Agency— | | Brought forward, Total, A. Conservancy and Works .. .. .. | 6,81,740 |
| (a) Timber .. | 1,94,849 | (a) Timber .. .. | 71,512 | | |
| (b) Firewood and charcoal .. | 1,36,808 | (b) Firewood and charcoal .. .. | 89,620 | I. Salaries— | |
| (c) Bamboos .. | 2,126 | (c) Bamboos .. .. | 367 | (a) Conservators .. | 50,789 |
| (d) Sandal-wood .. | 23,553 | (d) Sandalwood .. | 4,192 | (b) Superior officers.. | 2,18,130 |
| (e) Grass and other minor produce.. | 23,581 | (e) Grass and other minor produce .. | 11,967 | (c) Subordinate forest and depôt establishments .. | 1,58,917 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | II. Timber and other produce removed from the forests by consumers or purchasers .. .. .. | 77,401 | (d) Office establishments .. .. | 81,229 |
| (a) Timber .. | 3,15,893 | III. Confiscated drift and waif-wood .. .. .. | 2,511 | (e) Deputation and special allowances .. .. | 24,661 |
| (b) Firewood and charcoal .. | 2,39,868 | IV. Revenue from forests not managed by Government | .. | II. Travelling allowances— | |
| (c) Bamboos .. | 1,75,760 | V. Rent of leased forests and payments to shareholders in forests managed by Government .. .. | 18,084 | (a) Conservators .. | 7,692 |
| (d) Grazing and fodder grass .. | 2,66,891 | VI. Live-stock, stores, tools and plant— | | (b) Superior officers.. | 45,913 |
| (e) Other minor produce .. | 4,90,349 | (a) Purchase of cattle .. | 1,535 | (c) Subordinate forest and depôt establishments .. | 49,669 |
| III. Confiscated drift and waif-wood .. .. | 13,905 | (b) Feed and keep of cattle .. .. | 18,385 | (d) Office establishments .. .. | 13,531 |
| IV. Revenue from forests not managed by Government .. .. | .. | (c) Stores, tools and plant .. .. | 7,440 | III. Contingencies— | |
| V. Miscellaneous— | | VII. Communications and buildings— | | (a) Stationery .. | .. |
| (a) Fines and forfeitures .. .. | 1,758 | (a) Roads and bridges.. | 41,421 | (b) Carriage of tents and records .. | 6,571 |
| (b) Refunds .. | 663 | (b) Buildings .. .. | 34,229 | (c) Rents, rates and taxes .. .. | 3,110 |
| (c) Other sources .. | 57,771 | (c) Other works .. | 3,604 | (d) Pay of Police guards .. .. | .. |
| | | VIII. Demarcation, improvement and extension of forests— | | (e) Official postage .. | 14,077 |
| | | (a) Demarcation .. | 49,571 | (f) Sundries.. .. | 14,382 |
| | | (b) Compensation for landsand rights.. | 6,207 | | |
| | | (c) Surveys and working plans .. | 79,225 | | |
| | | (d) Plantations .. | 49,364 | | |
| | | (e) Protection from fire. | 46,155 | | |
| | | (f) Other works .. | 49,490 | | |
| | | IX. Miscellaneous— | | | |
| | | (a) Refunds .. .. | 9,430 | | |
| | | (b) Law charges .. | 1,495 | Total, B. Establishments .. .. | 6,86,671 |
| | | (c) Other charges .. | 8,535 | | |
| Total, Receipts .. | 19,43,715 | Total, A. Conservancy and Works .. .. .. | 6,81,740 | Grand Total of Expenditure .. .. .. | 13,68,411 |

## Annual Form No. 65.

*Forest Department, Madras Presidency, Northern Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1893–94.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Northern Circle .. .. .. .. | .. | 2,231 13 7 | 2,231 13 7 | 160 3 0 | 2,124 10 2 | 2,284 13 2 | 52 15 7 | .. |
| Forest Settlement-officer, Kurnool .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | 120 0 0 | 120 0 0 | .. | 120 0 0 | 120 0 0 | .. | .. |
| Ganjám .. .. .. .. .. .. | .. | 29,491 1 9 | 29,491 1 9 | 3,220 5 9 | 28,430 7 5 | 31,650 13 2 | 2,159 11 5 | .. |
| Vizagapatam .. .. .. .. .. .. | .. | 13,524 9 0 | 13,524 9 0 | 536 15 1 | 14,380 1 10 | 14,917 0 11 | 1,392 7 11 | .. |
| Gódávari .. .. .. .. .. .. | .. | 29,468 4 1 | 29,468 4 1 | 2,229 5 5 | 29,276 9 2 | 31,505 14 7 | 2,037 10 6 | .. |
| Kistna .. .. .. .. .. .. | .. | 41,087 15 8 | 41,087 15 8 | 1,135 7 2 | 45,395 6 2 | 46,530 13 4 | 5,442 13 8 | .. |
| Kurnool .. .. .. .. .. .. | .. | 37,762 7 11 | 37,762 7 11 | 1,551 8 4 | 36,871 4 2 | 38,422 12 6 | 660 4 7 | .. |
| Bellary .. .. .. .. .. .. | .. | 23,138 10 6 | 23,138 10 6 | 228 3 2 | 23,294 2 1 | 23,522 5 3 | 383 10 9 | .. |
| Anantapur .. .. .. .. .. .. | .. | 14,867 14 7 | 14,867 14 7 | 150 13 8 | 15,036 3 2 | 15,187 0 10 | 319 2 3 | .. |
| Total .. | .. | 1,91,692 13 1 | 1,91,692 13 1 | 9,212 13 7 | 1,94,928 12 2 | 2,04,141 9 9 | 12,448 12 8 | .. |

Madras,
30th August 1894.

(Signed) R. Morris,
Deputy Accountant-General.

## ANNUAL FORM No. 65.

*Forest Department, Madras Presidency, Central Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1893–94.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Central Circle .. .. .. .. | .. | 1,229 6 0 | 1,229 6 0 | 69 0 2 | 1,193 2 5 | 1,262 2 7 | 32 12 7 | .. |
| Forest Settlement-officer, Salem .. .. .. | .. | 355 3 11 | 355 3 11 | .. | 391 1 8 | 391 1 8 | 35 13 9 | .. |
| Do. Trichinopoly .. .. | .. | 113 11 7 | 113 11 7 | .. | 131 9 7 | 131 9 7 | 17 14 0 | .. |
| Do. Nellore .. .. .. | .. | 333 12 4 | 333 12 4 | 17 13 6 | 345 0 4 | 362 13 10 | 29 1 6 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | 215 0 0 | 215 0 0 | .. | 215 0 0 | 215 0 0 | .. | .. |
| Nellore .. .. .. .. .. .. | .. | 42,296 15 0 | 42,296 15 0 | 3,269 10 8 | 40,344 8 11 | 43,614 3 7 | 1,317 4 7 | .. |
| Cuddapah .. .. .. .. .. .. | .. | 39,382 1 6 | 39,382 1 6 | 786 11 10 | 40,022 8 4 | 40,809 4 2 | 1,427 2 8 | .. |
| Chingeput .. .. .. .. .. .. | .. | 17,589 14 1 | 17,589 14 1 | 370 8 7 | 17,791 6 11 | 18,161 15 6 | 572 1 5 | .. |
| North Arcot .. .. .. .. .. .. | .. | 72,133 7 4 | 72,133 7 4 | 2,140 0 2 | 72,386 1 5 | 74,528 1 7 | 2,394 10 3 | .. |
| South Arcot .. .. .. .. .. .. | .. | 49,045 13 7 | 49,045 13 7 | 1,923 11 7 | 48,561 4 11 | 50,485 0 6 | 1,439 2 11 | .. |
| Salem .. .. .. .. .. .. | .. | 86,065 11 6 | 86,065 11 6 | 2,110 1 9 | 87,917 2 10 | 90,027 4 7 | 3,961 9 1 | .. |
| Trichinopoly .. .. .. .. .. .. | .. | 28,475 12 5 | 28,475 12 5 | 655 2 8 | 28,583 9 2 | 29,238 11 10 | 762 15 5 | .. |
| Tanjore .. .. .. .. .. .. | .. | 7,098 3 7 | 7,098 3 7 | 146 2 6 | 7,094 14 9 | 7,241 1 3 | 142 13 8 | .. |
| Total .. | .. | 3,44,335 0 10 | 3,44,335 0 10 | 11,488 15 5 | 3,44,979 7 3 | 3,56,468 6 8 | 12,138 5 10 | .. |

MADRAS,
30th August 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## Annual Form No. 65.

*Forest Department, Madras Presidency, Southern Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1893–94.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Southern Circle .. .. .. .. | .. | 7,123 15 10 | 7,123 15 10 | 51 9 4 | 7,118 9 6 | 7,170 2 10 | 46 3 0 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | 267 0 0 | 267 0 0 | 37 0 0 | 367 0 0 | 404 0 0 | 137 0 0 | .. |
| Nilgiris .. .. .. .. .. .. | .. | 44,063 5 6 | 44,063 5 6 | 1,376 10 8 | 44,870 15 0 | 46,247 9 8 | 2,184 4 2 | .. |
| North Coimbatore .. .. .. .. | .. | 28,560 8 8 | 28,560 8 8 | 1,290 15 4 | 28,252 12 2 | 29,543 11 6 | 983 2 10 | .. |
| South Coimbatore .. .. .. .. | .. | 36,258 7 5 | 36,258 7 5 | 1,703 1 7 | 36,281 6 4 | 37,984 7 11 | 1,726 0 6 | .. |
| Madura .. .. .. .. .. .. .. | .. | 58,147 3 6 | 58,147 3 6 | 4,168 14 2 | 54,248 8 8 | 58,417 6 10 | 270 3 4 | .. |
| Tinnevelly .. .. .. .. .. .. | .. | 55,530 9 6 | 55,530 9 6 | 2,752 6 2 | 55,130 13 0 | 57,883 3 2 | 2,352 9 8 | .. |
| North Malabar .. .. .. .. .. .. | .. | 10,115 5 2 | 10,115 5 2 | 1,491 3 5 | 10,029 3 6 | 11,520 6 11 | 1,405 1 9 | .. |
| South Malabar .. .. .. .. .. .. | .. | 11,911 6 5 | 11,911 6 5 | 937 4 5 | 11,843 12 6 | 12,781 0 11 | 869 10 6 | .. |
| South Canara .. .. .. .. .. .. | .. | 27,859 9 5 | 27,859 9 5 | 1,365 14 6 | 27,892 13 2 | 29,258 11 8 | 1,399 2 3 | .. |
| Total .. | .. | 2,79,837 7 5 | 2,79,837 7 5 | 15,174 15 7 | 2,76,035 13 10 | 2,91,210 13 5 | 11,373 6 0 | .. |

Madras,
30th August 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## Grand Total for the Presidency.

| | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| .. | | 8,15,865 5 4 | 8,15,865 5 4 | 35,876 12 7 | 8,15,944 1 3 | 8,51,820 13 10 | 35,955 8 6 | .. |

ANNUAL FORM No. 66.

*Forest Department, Madras Presidency, Northern Circle.*

REVENUE received and Outstandings on account of revenue for the forest year 1893–94.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | |
| Direction .. .. .. | Timber and other produce .. | .. | .. | .. | .. | .. | |
| Ganjám .. .. .. | Do. do. .. | 0 2 0 | 1,25,269 6 1 | 1,25,269 8 1 | 1,25,023 8 1 | 246 0 0 | |
| Vizagapatam .. .. | Do. do. .. | .. | 24,551 3 1 | 24,551 3 1 | 24,551 3 1 | .. | |
| Gódávari .. .. .. | Do. do. .. | 28 14 0 | 1,19,043 10 4 | 1,19,072 8 4 | 1,19,072 8 4 | .. | |
| Kistna .. .. .. | Do. do. .. | 228 12 10 | 1,39,256 7 6 | 1,39,485 4 4 | 1,38,499 15 4<br>(a) 111 4 0 | 874 1 0 | (a) Written off the accounts, *vide* Board's Proceedings, dated 27th October 1893, No. 622. |
| Kurnool .. .. .. | Do. do. .. | .. | 95,402 10 2 | 95,402 10 2 | 95,390 0 2 | 12 10 0 | |
| Bellary .. .. .. | Do. do. .. | 435 6 6 | 47,156 15 5 | 47,592 5 11 | 47,457 5 5<br>(b) 59 2 6 | 75 14 0 | (b) Written off the accounts, *vide* Government Order, dated 19th April 1894, No. 1523. |
| Anantapur .. .. | Do. do. .. | .. | 61,100 7 2 | 61,100 7 2 | 54,320 7 2 | 6,780 0 0 | |
| | Total .. | 693 3 4 | 6,11,780 11 9 | 6,12,473 15 1 | 6,04,314 15 7<br>+ 170 6 6 | 7,988 9 0 | |

MADRAS,
4th September 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## ANNUAL FORM No. 66.

*Forest Department, Madras Presidency, Central Circle.*

Revenue received and Outstandings on account of revenue for the forest year 1893–94.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | |
| Direction .. .. | Timber and other produce.. | .. | 70 9 9 | 70 9 9 | 70 9 9 | .. | |
| Nellore .. .. .. | Do. do. .. | .. | 98,516 14 7 | 98,516 14 7 | 98,238 2 7 | 278 12 0 | |
| Cuddapah .. .. | Do. do. .. | 234 9 7 | 1,39,249 13 7 | 1,39,484 7 2 | 1,39,481 2 7 | 3 4 7 | |
| Chingleput .. .. | Do. do. .. | .. | 27,236 5 4 | 27,236 5 4 | 27,236 5 4 | .. | |
| North Arcot .. .. | Do. do. .. | 2,109 11 1 | 1,76,349 0 10 | 1,78,458 11 11 | 1,46,188 12 0 | 32,269 15 11 | |
| South Arcot .. .. | Do. do. .. | 116 3 0 | 84,169 15 2 | 84,286 2 2 | 84,286 2 2 | .. | |
| Salem .. .. .. | Do. do. .. | 1,192 1 3 | 1,87,588 10 7 | 1,88,780 11 10 | 1,88,123 5 4 | 657 6 6 | |
| Trichinopoly .. .. | Do. do. .. | 3,104 9 9 | 89,976 13 11 | 93,081 7 8 | 81,723 3 9<br>(a) 269 5 4 | 11,088 14 7 | (a) 263-5-4. Written off the accounts, *vide* Government Order, dated 1st February 1894, No. 420.<br>6-0-0. Written off the accounts, *vide* Government Order dated 14th June 1894, No. 2319, Mis. |
| Tanjore .. .. | Do. do. .. | .. | 11,336 14 1 | 11,336 14 1 | 11,103 14 4 | 232 15 9 | |
| | Total .. | 6,757 2 8 | 8,14,495 1 10 | 8,21,252 4 6 | 7,76,451 9 10<br>+ 269 5 4 | 44,531 5 4 | |

MADRAS,
4th September 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## ANNUAL FORM No. 66.

*Forest Department, Madras Presidency, Southern Circle.*

**Revenue received and Outstandings on account of revenue for the forest year 1893–94.**

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | |
| Direction .. .. .. | Timber and other produce .. | .. | 42 0 0 | 42 0 0 | 42 0 0 | .. | |
| Nilgiris .. .. .. | Do. do. .. | 895 4 3 | 52,832 1 4 | 53,727 5 7 | 52,767 3 10 | 960 1 9 | |
| North Coimbatore .. | Do. do. .. | 245 2 9 | 93,555 14 9 | 93,801 1 6 | 93,616 10 4 | 184 7 2 | |
| South Coimbatore .. | Do. do. .. | 375 15 4 | 93,285 13 1 | 93,661 12 5 | 92,857 4 0 | 804 8 5 | |
| Madura .. .. .. | Do. do. .. | 20,567 12 10 | 55,972 5 0 | 76,540 1 10 | 69,542 6 9 | 6,997 11 1 | |
| Tinnevelly .. .. | Do. do. .. | 1,128 12 4 | 85,849 3 0 | 86,977 15 4 | 85,486 11 1 | 1,491 4 3 | |
| North Malabar .. .. | Do. do. .. | 1,340 0 0 | 32,106 6 6 | 33,446 6 6 | 32,936 14 11 | 509 7 7 | |
| South Malabar .. .. | Do. do. .. | .. | 82,357 11 2 | 82,357 11 2 | 82,357 11 2 | .. | |
| South Canara .. .. | Do. do. .. | 3,118 12 0 | 53,533 11 1 | 56,652 7 1 | 53,342 3 1<br>(a) 884 6 0 | 2,425 14 0 | (a) Written off the accounts, *vide* Government Order, dated 8th May 1894, No. 1824. |
| | Total .. | 27,671 11 6 | 5,49,535 1 11 | 5,77,206 13 5 | 5,62,949 1 2<br>+ 884 6 0 | 13,273 6 3 | |

MADRAS,
13th October 1894.

(Signed) R. MORRIS,
Deputy Accountant-General.

## GRAND TOTAL for the Presidency.

| Outstandings at commencement of year. | Value of sales and other revenues during the year. | Total. | Amount realized during year. | Balance due to the department at end of the year. |
|---|---|---|---|---|
| Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| 35,122 1 6 | 19,75,810 15 6 | 20,10,933 1 0 | 19,43,715 10 7<br>+ 1,324 1 10 | 65,893 4 7 |

## ANNUAL FORM No. 68.

*Forest Department, Madras Presidency.*

**TREES felled by Government Agency during 1893–94.**

**Selection fellings.**

| Districts. | Teak. | Rose-wood. | Vengai. | Red-wood. | Sal. | Iron-wood. | Sandal-wood. | Miscella-neous. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *Northern Circle.* | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. |
| Stock at beginning of the year .. | .. | .. | .. | .. | .. | (a) 2 | .. | (a) 6 | 8 |
| Ganjám .. .. .. .. .. | .. | .. | .. | .. | 379 | .. | .. | 8 | 387 |
| Vizagapatam .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 60 | 60 |
| Gódávari .. .. .. .. .. | .. | .. | 38 | .. | .. | .. | .. | 203 | 241 |
| Kistna .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 125 | 125 |
| Anantapur .. .. .. .. | 2 | .. | .. | .. | .. | .. | .. | 11 | 13 |
| Bellary .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 10 | 10 |
| Kurnool .. .. .. .. .. | 2 | .. | .. | .. | .. | .. | .. | 544 | 546 |
| Total felled during the year .. | 4 | .. | 38 | .. | 379 | .. | .. | 961 | 1,382 |
| Total .. | 4 | .. | 38 | .. | 379 | 2 | .. | 967 | 1,390 |
| Converted into logs, &c. .. .. | 4 | .. | 38 | .. | 379 | .. | .. | 961 | 1,382 |
| Balance on hand at end of the year .. | .. | .. | .. | .. | .. | 2 | .. | 6 | 8 |
| *Central Circle.* | | | | | | | | | |
| Stock at beginning of the year .. | .. | .. | .. | .. | .. | .. | .. | (b) 27 | 27 |
| Nellore .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 40,666 | 40,666 |
| Cuddapah .. .. .. .. .. | .. | .. | .. | 19 | .. | .. | .. | 149 | 168 |
| Chingleput .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 151 | 151 |
| North Arcot .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South do. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tanjore .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Salem .. .. .. .. .. | 5 | .. | .. | .. | .. | .. | 420 | 599 | 1,024 |
| Total felled during the year .. | 5 | .. | .. | 19 | .. | .. | 420 | 41,565 | 42,009 |
| Total .. | 5 | .. | .. | 19 | .. | .. | 420 | 41,592 | 42,036 |
| Converted into logs, &c. .. .. | 5 | .. | .. | 19 | .. | .. | 420 | 41,572 | 42,016 |
| Balance on hand at end of the year .. | .. | .. | .. | .. | .. | .. | .. | 20 | 20 |
| *Southern Circle.* | | | | | | | | | |
| Stock at beginning of the year .. | 22 | 18 | 10 | .. | .. | .. | .. | 80 | 130 |
| Madura .. .. .. .. .. | 2 | 3 | 399 | .. | .. | .. | .. | 29 | 433 |
| Tinnevelly .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 129 | 129 |
| North Coimbatore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South do. .. .. .. .. | 156 | 2 | 3 | .. | .. | 11 | .. | 727 | 899 |
| Nilgiris .. .. .. .. .. | 289 | 2 | 342 | .. | .. | .. | .. | 20,234 | 20,867 |
| North Malabar .. .. .. .. | 504 | 74 | 104 | .. | .. | .. | .. | 66 | 748 |
| South do. .. .. .. .. | 89 | 75 | 14 | .. | .. | .. | .. | 891 | 1,069 |
| South Canara .. .. .. .. | 27 | 3 | 3 | .. | .. | .. | .. | 154 | 187 |
| Total felled during the year .. | 1,067 | 159 | 865 | .. | .. | 11 | .. | 22,230 | 24,332 |
| Total .. | 1,089 | 177 | 875 | .. | .. | 11 | .. | 22,310 | 24,462 |
| Converted into logs, &c. .. .. | 1,080 | (c) 169 | 863 | .. | .. | 11 | .. | (d) 22,152 | 24,275 |
| Balance on hand at end of the year .. | 9 | 8 | 12 | .. | .. | .. | .. | 158 | 187 |
| *Grand Total.* | | | | | | | | | |
| Total stock at beginning of the year .. | 22 | 18 | 10 | .. | .. | 2 | .. | (b) 113 | 165 |
| Total felled during the year .. | 1,076 | 159 | 903 | 19 | 379 | 11 | 420 | 64,756 | 67,723 |
| Total .. | 1,098 | 177 | 913 | 19 | 379 | 13 | 420 | 64,869 | 67,888 |
| Total converted into logs, &c. .. | 1,089 | (c) 169 | 901 | 19 | 379 | 11 | 420 | (d) 64,685 | 67,673 |
| Total balance on hand at end of the year .. .. .. .. | 9 | 8 | 12 | .. | .. | 2 | .. | 184 | 215 |

(a) The Collector of Vizagapatam against which district the figures were shown in district returns as the balance of trees to be converted at the close of 1892–93 omits them in the return for 1893–94 and does not explain the cause.
(b) The figure entered in the return for 1892–93 as the balance at the end of that year was an error.
(c) Includes one tree found hollow and rejected in the South Coimbatore district.
(d) Includes four trees written off as being useless in the Tinnevelly district.

## ANNUAL FORM No. 69.

*Forest Department, Madras Presidency.*

STATEMENT of Timber and other produce cut and collected by Government Agency during the year 1893–94.

| | Timber. | | | | | | | | Fuel. | Bamboos. | Sandalwood. | Minor produce. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sâl. | Iron wood. | Miscellaneous. | Total. | | | | |
| *Northern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Stock of the circle at the beginning of the year .. | 94 | .. | 315 | .. | 5,861 | 591 | 4,238 | 11,099 | 53,355 | 284 | .. | (a)24,180 |
| Ganjám .. .. .. | .. | .. | .. | .. | 13,180 | .. | 898 | 14,078 | .. | 800 | .. | .. |
| Vizagapatam .. .. .. | .. | .. | .. | .. | .. | .. | 622 | 622 | 1,660 | .. | .. | 3,840 |
| Gódávari .. .. .. | 520 | .. | 344 | .. | .. | .. | 487 | 1,351 | 8,808 | .. | .. | 81 |
| Kistna .. .. .. .. | .. | .. | .. | .. | .. | .. | 584 | 584 | 41,272 | .. | .. | 328 |
| Anantapur .. .. .. | 4 | .. | .. | .. | .. | .. | 110 | 114 | .. | .. | .. | 189 |
| Bellary .. .. .. | .. | .. | .. | .. | .. | .. | 40 | 40 | 18,648 | .. | .. | 6,000 |
| Kurnool .. .. .. | 84 | .. | 2,411 | .. | .. | .. | 4,077 | 6,572 | 65,774 | 540 | .. | 14 |
| Collection during the year .. | 608 | .. | 2,755 | .. | 13,180 | .. | 6,818 | 23,361 | 136,162 | 1,340 | .. | 10,452 |
| Total .. | 702 | .. | 3,070 | .. | 19,041 | 591 | 11,056 | 34,460 | 189,517 | 1,624 | .. | 34,632 |
| Sold locally in the forest .. | 498 | .. | 1,458 | .. | 2,322 | 573 | 6,306 | 11,157 | 127,037 | 1,084 | .. | 11,818 |
| Used departmentally, wastage written off, &c. .. .. | 4 | .. | .. | .. | 1,581 | 18 | 948 | 2,551 | 1,472 | 200 | .. | 21,957 |
| Removed to sale depôts .. | 200 | .. | 1,612 | .. | 12,834 | .. | 3,391 | 18,037 | .. | 340 | .. | 158 |
| Total disposal .. | 702 | .. | 3,070 | .. | 16,737 | 591 | 10,645 | 31,745 | 128,509 | 1,624 | .. | 33,933 |
| Stock in the forest on 30th June 1894 .. .. | .. | .. | .. | .. | 2,304 | .. | 411 | 2,715 | 61,008 | .. | .. | 699 |
| *Central Circle.* | | | | | | | | | | | | |
| Stock of the circle at the beginning of the year .. | .. | .. | .. | .. | .. | .. | (b)1,327 | 1,327 | (c)147,015 | .. | .. | 16,724 |
| Nellore .. .. .. | .. | .. | .. | .. | .. | .. | 204 | 204 | 266,048 | .. | .. | 3,362 |
| Cuddapah .. .. .. | .. | .. | .. | 40,032 | .. | .. | 1,772 | 41,804 | 2,010 | 2,384 | .. | 799 |
| Chingleput .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 2,360 | .. | .. | 269 |
| North Arcot .. .. .. | .. | .. | .. | 4,124 | .. | .. | 1,609 | 5,733 | 966,800 | 45 | .. | .. |
| South Arcot .. .. .. | .. | .. | .. | .. | .. | .. | 1,382 | 1,382 | 70,515 | .. | 4 | .. |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | 20 | 20 | .. | .. | .. | .. |
| Trichinopoly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 375,461 | .. | .. | .. |
| Salem .. .. .. .. | 5 | .. | .. | .. | .. | .. | 1,337 | 1,342 | 189,645 | 2,360 | 785 | 80 |
| Collection during the year .. | 5 | .. | .. | 44,156 | .. | .. | 6,324 | 50,485 | 1,872,839 | 4,789 | 789 | 4,510 |
| Total .. | 5 | .. | .. | 44,156 | .. | .. | 7,651 | 51,812 | 2,019,854 | 4,789 | 789 | 21,234 |
| Sold locally in the forest .. | .. | .. | .. | 3,357 | .. | .. | 3,079 | 6,436 | 1,241,389 | 45 | 4 | 7,194 |
| Used departmentally, wastage written off, &c. .. .. | .. | .. | .. | .. | .. | .. | 118 | 118 | 464 | .. | .. | 4 |
| Removed to sale depôts .. | 5 | .. | .. | 40,032 | .. | .. | 2,996 | 43,033 | 214,177 | 4,744 | 785 | 748 |
| Total disposal .. | 5 | .. | .. | 43,389 | .. | .. | 6,193 | 49,587 | 1,456,030 | 4,789 | 789 | 7,946 |
| Stock in the forest on 30th June 1894 .. .. | .. | .. | .. | 767 | .. | .. | 1,458 | 2,225 | 563,824 | .. | .. | 13,288 |
| *Southern Circle.* | | | | | | | | | | | | |
| Stock of the circle at the beginning of the year .. | 32,592 | 8,716 | 3,860 | .. | .. | .. | 69,960 | 115,128 | 307,782 | 5,660 | 13 | 1,341 |
| Madura .. .. .. | 1,539 | 25 | 4,832 | .. | .. | .. | 3,550 | 9,946 | 138,462 | 9,453 | .. | .. |
| Tinnevelly .. .. .. | 421 | .. | .. | .. | .. | .. | 14,626 | 15,047 | 318,803 | 56 | .. | 5,158 |
| North Coimbatore .. .. | 71 | 38 | 227 | .. | .. | .. | 465 | 801 | 60 | 60 | 2,426 | 78 |
| South Coimbatore .. .. | 10,823 | 40 | 131 | .. | .. | 475 | 51,179 | 62,648 | 149,862 | 250 | 2 | 2,945 |
| Nilgiris .. .. .. | 9,047 | 128 | 11,524 | .. | .. | .. | .. | 20,699 | 460,375 | .. | 397 | 385 |
| North Malabar .. .. | 26,056 | 1,994 | 4,086 | .. | .. | .. | 2,015 | 34,151 | .. | .. | .. | 8 |
| South Malabar .. .. | 20,299 | 2,654 | 486 | .. | .. | .. | 36,369 | 59,808 | 1,540 | 15,580 | .. | 6 |
| South Canara .. .. | 1,056 | .. | 47 | .. | .. | .. | 9,769 | 10,872 | 24,242 | 3,712 | .. | 1,045 |
| Collection during the year .. | 69,312 | 4,879 | 21,333 | .. | .. | 475 | 117,973 | 213,972 | 1,093,344 | 29,111 | 2,825 | 9,620 |
| Total .. | 101,904 | 13,595 | 25,193 | .. | .. | 475 | 187,933 | 329,100 | 1,401,126 | 34,771 | 2,838 | 10,961 |

## Statement of Timber and other produce cut and collected by Government Agency, &c.—*cont.*

| | Timber. | | | | | | | | Fuel. | Bamboos. | Sandalwood. | Minor produce. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sal. | Iron wood. | Miscellaneous. | Total. | | | | |
| *Southern Circle*—cont. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Sold locally in the forest .. | 45,557 | 7,467 | 18,958 | .. | ... | .. | 48,754 | 120,736 | 636,604 | 12,877 | 299 | 10,389 |
| Used departmentally, wastage written off, &c. .. | 2,137 | 595 | 26 | .. | .. | .. | 8,045 | 10,803 | 122,194 | 519 | .. | 127 |
| Removed to sale depôts .. | 43,154 | 358 | 142 | .. | .. | 262 | 55,317 | 99,233 | 220,019 | 15,061 | 2,419 | 109 |
| Total disposal .. | 90,848 | 8,420 | 19,126 | .. | .. | 262 | 112,116 | 230,772 | 978,817 | 28,457 | 2,718 | 10,625 |
| Stock in the forest on 30th June 1894 .. .. | 11,056 | 5,175 | 6,067 | .. | .. | 213 | 75,817 | 98,328 | 422,309 | 6,314 | 120 | 336 |
| | | | | | | *Grand Total.* | | | | | | |
| Stock of the circles at the beginning of the year .. | 32,686 | 8,716 | 4,175 | .. | 5,861 | 591 | 75,525 (b) | 127,554 | 508,152 (c) | 5,944 | 13 | 42,245 (a) |
| Collection during the year.. | 69,925 | 4,879 | 24,088 | 44,156 | 13,180 | 475 | 131,115 | 287,818 | 3,102,345 | 35,240 | 3,614 | 24,582 |
| Total .. | 102,611 | 13,595 | 28,263 | 44,156 | 19,041 | 1,066 | 206,640 | 415,372 | 3,610,497 | 41,184 | 3,627 | 66,827 |
| Sold locally in the forest .. | 46,055 | 7,467 | 20,416 | 3,357 | 2,322 | 578 | 58,139 | 138,329 | 2,005,030 | 14,006 | 303 | 29,401 |
| Used departmentally, wastage written off, &c. .. | 2,141 | 595 | 26 | .. | 1,581 | 18 | 9,111 | 13,472 | 124,130 | 719 | .. | 22,088 |
| Removed to sale depôts .. | 43,359 | 358 | 1,754 | 40,032 | 12,834 | 262 | 61,704 | 160,303 | 434,196 | 20,145 | 3,204 | 1,015 |
| Total disposal .. | 91,555 | 8,420 | 22,196 | 43,389 | 16,737 | 853 | 128,954 | 312,104 | 2,563,356 | 34,870 | 3,507 | 52,504 |
| Stock in the forest on 30th June 1894 .. .. | 11,056 | 5,175 | 6,067 | 767 | 2,304 | 213 | 77,686 | 103,268 | 1,047,141 | 6,314 | 120 | 14,323 |

(*a*) Includes 2,496 maunds of grass omitted to be shown in the previous year's return.

(*b*) Excludes 371 cubic feet wrongly classed under miscellaneous during 1892–93.

(*c*) Includes 371 cubic feet do. do. do. and 11,368 cubic feet omitted in the return for 1892–93.

## ANNUAL FORM No. 70.

*Forest Department, Madras Presidency.*

RECEIPTS and Issues of Timber and other produce in sale depôts during the year 1893–94 (from 1st July 1893 to 30th June 1894).

| — | TIMBER. | | | | | | | | FUEL. | BAMBOOS. | SANDALWOOD. | MINOR PRODUCE. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sál. | Ironwood. | Miscellaneous. | Total. | | | | |
| *Northern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Stock of the circle at sale depôts at the beginning of the year | 18 | .. | .. | .. | 4,415 | 52 | 142 | 4,627 | .. | .. | .. | 56 |
| Ganjám | .. | .. | .. | .. | 12,834 | .. | 28 | 12,862 | .. | .. | .. | .. |
| Vizagapatam | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Gódávari | 140 | .. | .. | .. | .. | .. | 412 | 552 | .. | .. | .. | .. |
| Kistna | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 156 |
| Bellary | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kurnool | 60 | .. | 1,612 | .. | .. | .. | 2,951 | 4,623 | .. | 340 | .. | 2 |
| Total received from forests into the sale depôts during the year | 200 | .. | 1,612 | .. | 12,834 | .. | 3,391 | 18,037 | .. | 340 | .. | 158 |
| Receipts from one sale depôt into another | .. | .. | .. | .. | 73 | .. | .. | 73 | .. | .. | .. | .. |
| Quantity found in depôts in excess of original measurement in the forests | .. | .. | .. | .. | .. | .. | 113 | 113 | .. | .. | .. | .. |
| Total receipts, including previous year's stock | 218 | .. | 1,612 | .. | 17,322 | 52 | 3,646 | 22,850 | .. | 340 | .. | 214 |
| Sold from depôts | 172 | .. | 1,011 | .. | 583 | .. | 2,460 | 4,226 | .. | .. | .. | 212 |
| Removed from one sale depôt into another | .. | .. | .. | .. | 73 | .. | .. | 73 | .. | .. | .. | .. |
| Deduct excess by wrong measurement | .. | .. | .. | .. | .. | 7 | .. | 7 | .. | .. | .. | .. |
| Quantity used departmentally, wastage written off, &c. | .. | .. | .. | .. | .. | 40 | 192 | 232 | .. | 340 | .. | 2 |
| Total | 172 | .. | 1,011 | .. | 656 | 47 | 2,652 | 4,538 | .. | 340 | .. | 214 |
| Balance at the end of the year | 46 | .. | 601 | .. | 16,666 | 5 | 994 | 18,312 | .. | .. | .. | .. |
| *Central Circle.* | | | | | | | | | | | | |
| Stock of the circle at the sale depôts at the beginning of the year | .. | .. | .. | 1,008 | .. | .. | (a) 222 | 1,230 | (b) 28,544 | 750 | 604 | 4,464 |
| Nellore | .. | .. | .. | .. | .. | .. | .. | .. | 132,027 | .. | .. | .. |
| Cuddapah | .. | .. | .. | 40,032 | .. | .. | 1,769 | 41,801 | 140 | 2,384 | .. | 748 |
| Chingleput | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | .. | .. | .. | .. | .. | .. | .. | .. | 70,966 | .. | .. | .. |
| South Arcot | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly | .. | .. | .. | .. | .. | .. | .. | .. | 8,384 | .. | .. | .. |
| Salem | 5 | .. | .. | .. | .. | .. | 1,227 | 1,232 | 2,660 | 2,360 | 785 | .. |
| Total received from forests into the sale depôts during the year | 5 | .. | .. | 40,032 | .. | .. | 29,96 | 43,033 | 214,177 | 4,744 | 785 | 748 |
| Receipts from one sale depôt into another | .. | .. | .. | .. | .. | .. | .. | .. | 857 | .. | .. | .. |
| Quantity found in depôts in excess of original measurement in the forests | .. | .. | .. | .. | .. | .. | 9 | 9 | 19,601 | .. | .. | .. |
| Total receipts, including previous year's stock | 5 | .. | .. | 41,040 | .. | .. | 3,227 | 44,272 | 263,179 | 5,494 | 1,389 | 5,212 |
| Sold from depôts | 5 | .. | .. | 40,990 | .. | .. | 2,950 | 43,945 | 225,402 | 4,114 | 1,348 | 187 |
| Removed from one sale depôt into another | .. | .. | .. | .. | .. | .. | .. | .. | 857 | .. | .. | .. |
| Deduct excess by wrong measurement | .. | .. | .. | .. | .. | .. | .. | .. | 2,425 | .. | .. | .. |
| Quantity used departmentally, wastage written off, &c. | .. | .. | .. | .. | .. | .. | 2 | 2 | 301 | .. | .. | 4,463 |
| Total | 5 | .. | .. | 40,990 | .. | .. | 2,952 | 43,947 | 228,985 | 4,114 | 1,348 | 4,650 |
| Balance at the end of the year | .. | .. | .. | 50 | .. | .. | 275 | 325 | 34,194 | 1,380 | 41 | 562 |

(a) Excludes 195 cubic feet wrongly included under timber in the return for 1892–93.
(b) Includes 195 cubic feet wrongly excluded under miscellaneous in the return for 1892–93.

Receipts and Issues of Timber and other produce in sale depôts during the year 1893-94—*cont.*

| — | Timber. | | | | | | | | Fuel. | Bamboos. | Sandalwood. | Minor produce. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sál. | Ironwood. | Miscellaneous. | Total. | | | | |
| *Southern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Stock of the circle at sale depôts at the beginning of the year .. .. | 21,144 | 25 | 67 | .. | .. | .. | 3,200 | 24,436 | 38,100 | .. | 627 | .. |
| Madura .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 9,821 | .. | .. | .. |
| Tinnevelly .. .. | 6 | .. | .. | .. | .. | .. | 8,073 | 8,079 | 12,475 | .. | .. | 2 |
| North Coimbatore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2,419 | 58 |
| South Coimbatore .. | 22,570 | 272 | 59 | .. | .. | 262 | 41,215 | 64,378 | .. | .. | .. | 13 |
| Nilgiris .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 196,183 | .. | .. | 36 |
| North Malabar .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Malabar .. .. | 19,522 | .. | .. | .. | .. | .. | .. | 19,522 | 1,540 | 15,061 | .. | .. |
| South Canara .. .. | 1,056 | 86 | 83 | .. | .. | .. | 6,029 | 7,254 | .. | .. | .. | .. |
| Total received from forests into the sale depôts during the year .. .. | 43,154 | 358 | 142 | .. | .. | 262 | 55,317 | 99,233 | 220,019 | 15,061 | 2,419 | 109 |
| Receipts from one sale depôt into another .. | 82 | .. | .. | .. | .. | .. | .. | 82 | 4,350 | .. | .. | .. |
| Quantity found in depôts in excess of original measurements in the forest .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 304 | 5 | .. | .. |
| Total receipts including previous year's stock .. | 64,380 | 383 | 209 | .. | .. | 262 | 58,517 | 123,751 | 262,773 | 15,066 | 3,046 | 109 |
| Sold from depôts .. .. | 63,307 | 238 | 207 | .. | .. | .. | 25,786 | 90,138 | 216,828 | 15,066 | 561 | 15 |
| Removed from one sale depôt into another .. | 82 | .. | .. | .. | .. | .. | .. | 82 | 4,350 | .. | .. | .. |
| Deduct excess by wrong measurement .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Quantity used departmentally, wastage written off, &c. .. .. .. | 63 | .. | 2 | .. | .. | .. | 599 | 664 | 6,625 | .. | 167 | .. |
| Total .. | 64,052 | 238 | 209 | .. | .. | .. | 26,385 | 90,884 | 227,803 | 15,066 | 728 | 15 |
| Balance at the end of the year .. .. .. | 328 | 145 | .. | .. | .. | 262 | 32,132 | 32,867 | 34,970 | .. | 2,318 | 94 |
| | | | | | *Grand Total.* | | | | | | | |
| Stock of the circles at sale depôts at the beginning of the year .. .. | 21,162 | 25 | 67 | 1,008 | 4,415 | 52 | 3,564 | 30,293 | 66,644 | 750 | 1,231 | 4,520 |
| Total received from forest into sale depôts during the year .. .. | 43,359 | 358 | 1,754 | 40,032 | 12,834 | 262 | 61,704 | 160,303 | 434,196 | 20,145 | 3,204 | 1,015 |
| Receipts from one sale depôt into another .. | 82 | .. | .. | .. | 73 | .. | .. | 155 | 5,207 | .. | .. | .. |
| Quantity found in excess of original measurement in forests .. | .. | .. | .. | .. | .. | .. | 122 | 122 | 19,905 | 5 | .. | .. |
| Total receipts including previous year's stock .. | 64,603 | 383 | 1,821 | 41,040 | 17,322 | 314 | 65,390 | 190,873 | 525,952 | 20,900 | 4,435 | 5,535 |
| Sold from depôts .. .. | 64,084 | 238 | 1,218 | 40,990 | 583 | .. | 31,196 | 138,309 | 442,230 | 19,180 | 1,909 | 414 |
| Removed from one sale depôt into another .. | 82 | .. | .. | .. | 73 | .. | .. | 155 | 5,207 | .. | .. | .. |
| Deduct excess by wrong measurement .. .. | .. | .. | .. | .. | .. | 7 | .. | 7 | 2,425 | .. | .. | .. |
| Quantity used departmentally, wastage written off, &c. .. .. .. | 63 | .. | 2 | .. | .. | 40 | 793 | 898 | 6,926 | 340 | 167 | 4,465 |
| Total .. | 64,229 | 238 | 1,220 | 40,990 | 656 | 47 | 31,989 | 139,369 | 456,788 | 19,520 | 2,076 | 4,879 |
| Stock on 30th June 1894. | 374 | 145 | 601 | 50 | 16,666 | 267 | 33,401 | 51,504 | 69,164 | 1,380 | 2,359 | 656 |

## ANNUAL FORM No. 71.

*Forest Department, Madras Presidency.*

SALES of timber and other produce cut and collected by Government Agency during the year 1893–94 (from 1st April 1893 to 30th June 1894).

| District. | Timber. | | | | | | | | | | | | | | Total, Timber. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | | Rosewood. | | Vengai. | | Redwood. | | Sal. | | Iron-wood. | | Miscellaneous. | | From depôt. | | From forest. | |
| | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | Quantity. | Amount. | Quantity. | Amount. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | RS. | C. FT. | RS. |
| Ganjám | .. | .. | .. | .. | .. | .. | .. | .. | 583 | 2,322 | .. | .. | 22 | 834 | 605 | 333 | 3,156 | 354 |
| Vizagapatam | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,000 |
| Gódávari | 158 | 468 | .. | .. | .. | 344 | .. | .. | .. | .. | .. | 573 | 412 | 3,518 | 570 | 20 | 4,903 | 551 |
| Kistna | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 584 | .. | .. | 584 | 11 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bellary | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kurnool | 14 | 30 | .. | .. | 1,011 | 1,114 | .. | .. | .. | .. | .. | .. | 2,026 | 1,370 | 3,051 | 2,563 | 2,514 | 1,875 |
| Total | 172 | 498 | .. | .. | 1,011 | 1,458 | .. | .. | 583 | 2,322 | .. | 573 | 2,460 | 6,306 | 4,226 | 2,916 | 11,157 | 3,791 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Nellore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 43 | .. | .. | 43 | 16 |
| Cuddapah | .. | .. | .. | .. | .. | .. | 40,032 | .. | .. | .. | .. | .. | 1,723 | 2 | 41,755 | 12,004 | 2 | 3 |
| Chingleput | .. | .. | .. | .. | .. | .. | 958 | 3,357 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,613 | 958 | .. | 4,970 | 2,278 |
| South Arcot | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,379 | .. | .. | 1,379 | 509 |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 20 | .. | .. | 20 | 167 |
| Trichinopoly | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Salem | 5 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,227 | 22 | 1,232 | 966 | 22 | 3 |
| Total | 5 | .. | .. | .. | .. | .. | 40,990 | 3,357 | .. | .. | .. | .. | 2,950 | 3,079 | 43,945 | 12,970 | 6,436 | 2,325 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | |
| Madura | .. | 1,028 | .. | 13 | .. | 4,951 | .. | .. | .. | .. | .. | .. | .. | 3,535 | .. | .. | 9,527 | 6,054 |
| Tinnevelly | 6 | 415 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6,806 | 2,465 | 6,812 | 7,078 | 2,880 | 681 |
| North Coimbatore | .. | 71 | .. | 38 | .. | 227 | .. | .. | .. | .. | .. | .. | .. | 465 | .. | .. | 801 | 76 |
| South Coimbatore | 41,005 | 39 | 184 | 252 | 59 | 278 | .. | .. | .. | .. | .. | .. | 10,678 | 962 | 51,926 | 50,544 | 1,531 | 469 |
| Nilgiris | .. | 9,878 | .. | 1,819 | .. | 9,772 | .. | .. | .. | .. | .. | .. | 224 | 55 | 224 | 81 | 21,524 | 12,276 |
| North Malabar | .. | 27,942 | .. | 1,431 | .. | 3,730 | .. | .. | .. | .. | .. | .. | .. | 390 | .. | .. | 33,493 | 22,582 |
| South Malabar | 21,701 | 6,184 | .. | 3,914 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 38,473 | 21,701 | 29,978 | 48,571 | 34,374 |
| South Canara | 1,195 | .. | 54 | .. | 148 | .. | .. | .. | .. | .. | .. | .. | 8,078 | 2,409 | 9,475 | 8,151 | 2,409 | 318 |
| Total | 63,907 | 45,557 | 238 | 7,467 | 207 | 18,958 | .. | .. | .. | .. | .. | .. | 25,786 | 48,754 | 90,138 | 95,832 | 120,736 | 76,830 |

* Amount received as advance.

## Sales of timber and other produce cut and collected by Government Agency during the year 1893–94, &c.—*cont.*

| District. | Fuel. | | | | Bamboos. | | | | Sandalwood. | | | | Minor produce. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From depôt. | | From forest. | | From depôt. | | From forest. | | From depôt. | | From forest. | | From depôt. | | From forest. | |
| | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Northern Circle.* | C. FT. | RS. | C. FT. | RS. | NO. | RS. | NO. | RS. | C. FT. | RS. | C. FT. | RS. | MDS. | RS. | MDS. | RS. |
| Ganjám | .. | .. | .. | .. | .. | .. | 800 | 3 | .. | .. | .. | .. | .. | .. | .. | .. |
| Vizagapatam | .. | .. | 1,360 | 100 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4,032 | 452 |
| Gódávari | .. | .. | 48,231 | 2,912 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,520 | 995 |
| Kistna | .. | .. | 432 | 439 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 203 | 65 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 212 | 431 | 53 | 80 |
| Bellary | .. | .. | 30,008 | 675 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6,000 | 1,200 |
| Kurnool | .. | .. | 47,006 | 777 | .. | .. | 284 | .. | .. | .. | .. | .. | .. | .. | 10 | 9 |
| Total | .. | .. | 127,037 | 4,903 | .. | .. | 1,084 | 3 | .. | .. | .. | .. | 212 | 431 | 11,818 | 2,801 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Nellore | 146,897 | 24,064 | 53,425 | 9,908 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 5,898 | 4,192 |
| Cuddapah | 140 | 7 | 17,425 | 323 | 1,684 | 77 | .. | .. | .. | .. | .. | .. | 187 | 155 | 51 | 27 |
| Chingleput | .. | .. | 2,360 | 291 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,165 | † .. |
| North Arcot | 66,786 | 4,474 | 603,898 | 14,031 | 70 | 21 | 45 | 7 | .. | .. | .. | 343 | .. | .. | .. | .. |
| South Arcot | .. | .. | 91,116 | 7,116 | .. | .. | .. | .. | 73 | 85 | 4 | 29 | .. | .. | .. | .. |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly | 8,919 | 605 | 276,240 | 17,891 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 67 |
| Salem | 2,660 | 232 | 186,925 | 18,424 | 2,360 | 78 | .. | .. | 1,275 | 11,985 | .. | .. | .. | .. | 80 | 5 |
| Total | 225,402 | 29,382 | 1,241,389 | 67,984 | 4,114 | 176 | 45 | 7 | 1,348 | 12,070 | 4 | 372 | 187 | 155 | 7,194 | 4,291 |
| *Southern Circle.* | | | | | | | | | | | | | | | | |
| Madura | 9,867 | 923 | 78,625 | 9,622 | .. | .. | 8,849 | 291 | .. | .. | .. | .. | .. | .. | .. | .. |
| Tinnevelly | 12,475 | 734 | 305,878 | 6,470 | .. | .. | 56 | .. | .. | .. | .. | .. | 2 | 100 | 5,155 | 42 |
| North Coimbatore | .. | .. | 60 | † .. | .. | .. | 60 | .. | 561 | 9,030 | 3 | 4 | .. | .. | 6 | 8 |
| South Coimbatore | .. | .. | 129,459 | 1,802 | .. | .. | 250 | 20 | .. | .. | 2 | 2 | 13 | 262 | 3,364 | 7,607 |
| Nilgiris | 192,946 | 16,856 | 97,203 | 3,777 | .. | .. | .. | .. | .. | .. | 294 | 2,070 | .. | .. | 331 | 68 |
| North Malabar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6 | 45 |
| South Malabar | 1,540 | 100 | .. | .. | 15,066 | 1,597 | .. | .. | .. | .. | .. | .. | .. | .. | 77 | 322 |
| South Canara | .. | .. | 25,379 | 2,091 | .. | .. | 3,662 | 28 | .. | .. | .. | .. | .. | .. | 1,450 | 7,641 |
| Total | 216,828 | 18,613 | 636,504 | 23,762 | 15,066 | 1,597 | 12,877 | 339 | 561 | 9,030 | 299 | 2,076 | 15 | 362 | 10,389 | 15,733 |

* Form No. 71 of the district shows no sale, but the amount of revenue is entered from Form No. 64 furnished by the Accountant-General.
† The summary of revenue (Form No. 64) does not show any revenue.

Sales of timber and other produce cut and collected by Government Agency, &c.—*cont.*

| | | Quantity sold. | | | Amount of sales. | | | Amount actually realized. |
|---|---|---|---|---|---|---|---|---|
| | | From depôt. | From forest. | Total. | From depôt. | From forest. | Total. | |
| | *Northern Circle.* | | | Abstract. | | | | |
| | | | | | Rs. | Rs. | Rs. | Rs. |
| I (*a*) | Timber .. .. C.ft. | 4,226 | 11,157 | 15,383 | 2,916 | 3,791 | 6,707 | 6,461 |
| (*b*) | Fuel .. .. .. ,, | .. | 127,037 | 127,037 | .. | 4,903 | 4,903 | 4,903 |
| (*c*) | Bamboos .. .. No. | .. | 1,084 | 1,084 | .. | 3 | 3 | 3 |
| (*d*) | Sandalwood .. .. C.ft. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) | Minor produce .. Mds. | 212 | 11,818 | 12,030 | 431 | 2,801 | 3,232 | 3,232 |
| | *Central Circle.* | | | | | | | |
| I (*a*) | Timber .. .. C.ft. | 43,945 | 6,436 | 50,381 | 12,970 | 2,825 | 15,795 | 16,276 |
| (*b*) | Fuel .. .. .. ,, | 225,402 | 1,241,389 | 1,466,791 | 29,382 | 67,984 | 97,366 | 92,335 |
| (*c*) | Bamboos .. .. No. | 4,114 | 45 | 4,159 | 176 | 7 | 183 | 179 |
| (*d*) | Sandalwood .. .. C.ft. | 1,348 | 4 | 1,352 | 12,070 | 372 | 12,442 | 12,447 |
| (*e*) | Minor produce .. Mds. | 187 | 7,194 | 7,381 | 155 | 4,291 | 4,446 | 4,445 |
| | *Southern Circle.* | | | | | | | |
| I (*a*) | Timber .. .. C.ft. | 90,138 | 120,736 | 210,874 | 95,832 | 76,830 | 1,72,662 | 1,72,112 |
| (*b*) | Fuel .. .. .. ,, | 216,828 | 636,604 | 853,432 | 18,613 | 23,762 | 42,375 | 39,570 |
| (*c*) | Bamboos .. .. No. | 15,066 | 12,877 | 27,943 | 1,597 | 339 | 1,936 | 1,944 |
| (*d*) | Sandalwood .. .. C.ft. | 561 | 299 | 860 | 9,030 | 2,076 | 11,106 | 11,106 |
| (*e*) | Minor produce .. Mds. | 15 | 10,389 | 10,404 | 362 | 15,733 | 16,095 | 15,904 |
| | | | | *Grand Total.* | | | | |
| I (*a*) | Timber .. .. C.ft. | 138,309 | 138,329 | 276,638 | 1,11,718 | 83,446 | 1,95,164 | 1,94,849 |
| (*b*) | Fuel .. .. .. ,, | 442,230 | 2,005,030 | 2,447,260 | 47,995 | 96,649 | 1,44,644 | 1,36,808 |
| (*c*) | Bamboos .. .. No. | 19,180 | 14,006 | 33,186 | 1,773 | 349 | 2,122 | 2,126 |
| (*d*) | Sandalwood .. .. C.ft. | 1,909 | 303 | 2,212 | 21,100 | 2,448 | 23,548 | 23,553 |
| (*e*) | Minor produce .. Mds. | 414 | 29,401 | 29,815 | 948 | 22,825 | 23,773 | 23,581 |
| | Grand Total of sales during the year both from depôts and forests .. .. | | | | | | 389,251 | 3,80,917 |
| | Add outstandings due from previous year as per Form No. 66 .. | | | | | | 4,905 | .. |
| | Total .. | | | | | | 3,94,156 | .. |
| | Deduct amount realized as per Form No. 64 .. .. .. | | | | | | 3,80,917 | .. |
| | Balance outstanding on 30th June 1894 .. | | | | | | 13,239 | .. |

## Annual Form No. 72-A.

*Forest Department, Madras Presidency.*

Timber and other produce cut, collected and removed by consumers or purchasers during 1893–94 (from 1st April 1892 to 30th June 1893).

| District. | Timber. | Firewood and charcoal. | Bamboos. | Money value of sales. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Timber. | | Firewood and charcoal. | | Bamboos. | | Grazing and fodder grass. | | Minor produce. | | Total. | |
| | | | | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. |
| *Northern Circle.* | C. FEET. | C. FEET. | NO. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Ganjám | 477,808 | 626,648 | 2,119,661 | 1,01,636 | 1,01,636 | 8,145 | 8,145 | 7,493 | 7,493 | 2,801 | 2,801 | 3,634 | 3,634 | 1,23,709 | 1,23,709 |
| Vizagapatam | 129,730 | 298,360 | 633,800 | 4,127 | 4,127 | 7,080 | 7,080 | 6,856 | 6,856 | 190 | 190 | 3,835 | 3,835 | 22,088 | 22,088 |
| Gódávari | 245,455 | 445,181 | 9,550,050 | 38,591 | 38,591 | 8,302 | 8,302 | 55,811 | 55,840 | 3,359 | 3,359 | 4,795 | 4,795 | 1,10,858 | 1,10,887 |
| Kistna | 483,197 | 614,520 | 282,650 | 25,635 | 25,657 | 16,006 | 15,360 | 728 | 728 | 74,012 | 74,087 | 16,527 | 16,319 | 1,32,908 | 1,32,151 |
| Anantapur | 43,650 | 128,520 | 7,753 | 6,945 | 6,945 | 2,627 | 2,627 | 145 | 145 | 2,459 | 2,459 | 47,651 | 40,871 | 59,827 | 53,047 |
| Bellary | 101,311 | 211,382 | 82,650 | 6,197 | 6,197 | 5,099 | 5,099 | 1,648 | 1,648 | 2,920 | 2,920 | 28,571 | 28,871 | 44,435 | 44,735 |
| Kurnool | 362,599 | 293,979 | 4,071,400 | 32,125 | 32,125 | 7,803 | 7,803 | 16,508 | 16,508 | 11,090 | 11,077 | 19,414 | 19,414 | 86,940 | 86,927 |
| Total | 1,843,750 | 2,618,590 | 16,747,964 | 2,15,256 | 2,15,278 | 55,062 | 54,416 | 89,189 | 89,218 | 96,831 | 96,893 | 1,24,427 | 1,17,739 | 5,80,765 | 5,73,544 |
| *Central Circle.* | | | | | | | | | | | | | | | |
| Nellore | 117,975 | 108,025 | 2,804 | 9,562 | 9,562 | 4,173 | 4,173 | 90 | 90 | 15,584 | 15,584 | 30,556 | 30,556 | 59,965 | 59,965 |
| Cuddapah | 123,057 | 1,253,079 | 261,590 | 13,079 | 13,079 | 16,973 | 16,973 | 6,567 | 6,567 | 10,426 | 10,426 | 77,154 | 77,154 | 1,24,199 | 1,24,199 |
| Chingleput | 45,315 | 199,693 | 16,768 | 4,715 | 4,715 | 5,919 | 5,919 | 230 | 230 | 5,785 | 5,785 | 9,192 | 9,192 | 25,841 | 25,841 |
| North Arcot | 14,111 | 52,438 | 2,436,672 | 2,916 | 2,916 | 18,629 | 16,954 | 38,159 | 22,633 | 42,782 | 42,782 | 42,342 | 32,280 | 1,44,828 | 1,17,565 |
| South do. | 13,127 | 478,805 | 197,696 | 992 | 992 | 20,812 | 20,812 | 3,089 | 3,089 | 15,173 | 15,173 | 28,741 | 28,741 | 68,807 | 68,807 |
| Tanjore | 15,870 | 246,434 | 18,857 | 1,025 | 1,025 | 4,960 | 4,960 | 254 | 254 | 482 | 482 | 4,294 | 4,079 | 11,015 | 10,800 |
| Trichinopoly | 126,898 | 648,373 | 618,301 | 9,156 | 9,156 | 10,672 | 10,829 | 3,740 | 3,740 | 5,397 | 5,442 | 40,131 | 33,397 | 69,096 | 62,564 |
| Salem | 214,155 | 396,137 | 3,476,415 | 21,651 | 22,171 | 34,495 | 34,495 | 29,020 | 29,020 | 19,654 | 19,654 | 46,864 | 46,874 | 1,51,684 | 1,52,214 |
| Total | 670,508 | 3,382,984 | 7,029,103 | 63,096 | 63,616 | 1,16,633 | 1,15,115 | 81,149 | 65,623 | 1,15,283 | 1,15,328 | 2,79,274 | 2,62,273 | 6,55,435 | 6,21,955 |
| *Southern Circle.* | | | | | | | | | | | | | | | |
| Madura | 16,272 | 101,591 | 79,808 | 13,116 | 13,116 | 5,672 | 5,672 | 1,253 | 1,253 | 3,075 | 3,075 | 14,949 | 31,193 | 38,065 | 54,309 |
| Tinnevelly | 6,721 | 1,473,665 | 31,872 | 1,687 | 1,687 | 41,696 | 42,166 | 424 | 498 | 5,776 | 5,311 | 18,988 | 18,412 | 68,571 | 68,074 |
| North Coimbatore | 50,904 | 368,892 | 625,792 | 7,175 | 7,175 | 8,253 | 8,288 | 9,780 | 9,780 | 27,595 | 27,588 | 27,054 | 27,087 | 79,857 | 79,918 |
| South do. | 20,422 | 696,324 | 269,440 | 4,907 | 4,907 | 9,317 | 9,317 | 4,209 | 4,209 | 6,286 | 6,286 | 5,158 | 5,158 | 29,877 | 29,877 |
| Nilgiris | 3,457 | 20,086 | 194,806 | 769 | 769 | 1,043 | 1,043 | 2,553 | 2,553 | 7,420 | 7,420 | 649 | 649 | 12,434 | 12,434 |
| North Malabar | 14,051 | 1,184 | 32,585 | 4,224 | 4,224 | 25 | 25 | 479 | 479 | 1,226 | 1,226 | 1,093 | 2,323 | 7,047 | 8,277 |
| South do. | 59,812 | 147,444 | 121,483 | 3,885 | 3,885 | 2,725 | 2,725 | 1,293 | 1,293 | 79 | 79 | 2,116 | 2,116 | 10,098 | 10,098 |
| South Canara | 3,651 | 189,056 | 46,745 | 1,236 | 1,236 | 1,041 | 1,041 | 854 | 854 | 3,685 | 3,685 | 23,590 | 23,399 | 30,406 | 30,215 |
| Total | 175,290 | 2,997,942 | 1,402,531 | 36,999 | 36,999 | 69,772 | 70,277 | 20,845 | 20,919 | 55,142 | 54,670 | 93,597 | 1,10,337 | 2,76,355 | 2,93,202 |
| Grand total | 26,89,548 | 8,999,516 | 25,179,598 | 3,15,351 | 3,15,893 | 2,41,467 | 2,39,808 | 1,91,183 | 1,75,760 | 2,67,256 | 2,66,891 | 4,97,298 | 4,90,349 | 15,12,555 | 14,88,701 |
| Add outstanding due from previous year as per Form No. 66 | | | | | | | | | | | | | | 30,095 | |
| Total | | | | | | | | | | | | | | 15,42,650 | |
| Deduct amount of outstanding written off, &c. | | | | | | | | | | | | | | 1,324. | |
| Do. realized during the year as per Form No. 64 | | | | | | | | | | | | | | 14,88,701 | |
| Balance outstanding on 30th June 1893 as per Form No. 66 | | | | | | | | | | | | | | 52,625 | |

## ANNUAL FORM No. 72-B.

*Forest Department, Madras Presidency.*

TIMBER and other Produce confiscated and sold during the year 1893–94.

| District. | TIMBER. | | FIREWOOD. | | BAMBOOS. | | Minor produce in value. | Total amount of sales. | Amount actually realized. |
|---|---|---|---|---|---|---|---|---|---|
| | Quantity in cubic feet. | Amount of sales. | Quantity in cubic feet. | Amount of sales. | Number. | Amount of sales. | | | |
| *Northern Circle.* | | RS. | | RS. | | RS. | RS. | RS. | RS. |
| Ganjám .. .. | 1,538 | 355 | 178 | 6 | 831 | 6 | 12 | 379 | 379 |
| Vizagapatam .. | 220 | 44 | 1,409 | 26 | .. | .. | 19 | 89 | 89 |
| Gódávari .. .. | 8,443 | 3,018 | 24,012 | 493 | .. | .. | .. | 3,511 | 3,511 |
| Kistna .. .. | 2,117 | 371 | 500 | 21 | 2,000 | 10 | 44 | 446 | 446 |
| Anantapur .. .. | 144 | 13 | 162 | 6 | .. | .. | 34 | 53 | 53 |
| Bellary .. .. | 103 | 10 | 3,580 | 209 | .. | .. | .. | 219 | 219 |
| Kurnool .. .. | 3,191 | 2,266 | 1,802 | 26 | 7,700 | 39 | 14 | 2,345 | 2,345 |
| Total .. | 15,756 | 6,077 | 31,643 | 787 | 10,531 | 55 | 123 | 7,042 | 7,042 |
| *Central Circle.* | | | | | | | | | |
| Nellore .. .. | 540 | 135 | 640 | 27 | .. | .. | .. | 162 | 162 |
| Cuddapah .. .. | 1,261 | 280 | 135 | 8 | 104 | 4 | 123 | 415 | 413 |
| Chingleput .. .. | 153 | 29 | 116 | 5 | .. | .. | 30 | 64 | 64 |
| North Arcot .. | 1,333 | 635 | 311 | 31 | 643 | 9 | 8 | 683 | 683 |
| South do. .. | 3,001 | 190 | 11,968 | 743 | 256 | 4 | 66 | 1,008 | 1,008 |
| Tanjore .. .. | 153 | 72 | 103 | 41 | .. | .. | .. | 113 | 113 |
| Trichinopoly .. | 86 | 9 | 274 | 10 | 2,734 | 44 | 17 | 80 | 80 |
| Salem .. .. | 410 | 828 | 225 | 18 | 1,925 | 24 | 1 | 871 | 871 |
| Total .. | 6,937 | 2,178 | 13,772 | 888 | 5,662 | 85 | 245 | 3,396 | 3,394 |
| *Southern Circle.* | | | | | | | | | |
| Madura .. .. | 15,180 | 94 | 9,840 | 32 | 224 | 3 | 15 | 144 | 144 |
| Tinnevelly .. .. | 44 | 11 | 6,004 | 170 | 280 | 1 | 31 | 213 | 213 |
| North Coimbatore .. | 544 | 207 | 61 | 4 | 512 | 8 | 103 | 322 | 322 |
| South do. .. | 65 | 9 | 245 | 16 | 640 | 10 | 102 | 137 | 137 |
| Nilgiris .. .. | 562 | 318 | 49 | 5 | .. | .. | .. | 323 | 323 |
| North Malabar .. | .. | .. | .. | .. | .. | .. | 3 | 3 | 3 |
| South do. .. | 3,733 | 1,586 | .. | .. | .. | .. | 3 | 1,589 | 1,589 |
| South Canara .. | 2,409 | 437 | 608 | 38 | 768 | 12 | 251 | 738 | 738 |
| Total .. | 22,537 | 2,662 | 16,807 | 265 | 2,424 | 34 | 508 | 3,469 | 3,469 |
| Grand Total .. | 45,230 | 10,917 | 62,222 | 1,940 | 18,617 | 174 | 876 | 13,907 | 13,905 |
| Deduct amount realized during the year as per Form No. 66 .. .. .. .. .. | | | | | | | | 13,905 | |
| Balance outstanding on 30th June 1894 .. | | | | | | | | 2 | |

## ANNUAL FORM No. 73-A.

*Forest Department, Madras Presidency.*

ABSTRACT showing the Value of Timber and other produce at sale depôts for the year 1893–94.

| District. | Description of timber or produce. | On hand at commencement of the year. | | | On hand at end of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | *Northern Circle.* | | | Rs. | | | Rs. | Rs. | Rs. |
| Ganjám .. | Sal logs .. .. .. | 209 | 4,320 | 1,620 | 1,030 | 16,571 | 6,214 | 4,594 | .. |
| | ,, sleepers .. .. | 27 | 94 | 54 | 27 | 94 | 54 | .. | .. |
| | ,, slabs .. .. .. | 69 | 7 | 1 | 6 | 1 | 1 | .. | .. |
| | Miscellaneous .. .. | 1 | 16 | 2 | 2 | 28 | 4 | 2 | .. |
| | Total, Timber .. | .. | 4,437 | 1,677 | .. | 16,694 | 6,273 | 4,596 | .. |
| Vizagapatam .. | Ironwood .. .. .. | 2 | 40 | 40 | .. | .. | .. | .. | 40 |
| | Miscellaneous .. .. | 6 | 120 | 120 | .. | .. | .. | .. | 120 |
| | Total, Timber .. | .. | 160 | 160 | .. | .. | .. | .. | 160 |
| Gódávari .. | Ironwood .. .. .. | .. | 18 | 27 | .. | 5 | 7 | .. | 20 |
| | Teak .. .. .. | .. | 12 | 18 | .. | .. | .. | .. | 18 |
| | Total, Timber .. | .. | 30 | 45 | .. | 5 | 7 | .. | 38 |
| Anantapur .. | Minor produce .. .. | Mds. 56 | .. | 139 | .. | .. | .. | .. | 139 |
| Kurnool .. | Teak .. .. .. | .. | .. | .. | 6 | 46 | 93 | 93 | .. |
| | Vengai .. .. .. | .. | .. | .. | 993 | 601 | 543 | 543 | .. |
| | Miscellaneous .. .. | .. | .. | .. | 137 | 966 | 724 | 724 | .. |
| | Total, Timber .. | .. | .. | .. | .. | 1,613 | 1,360 | 1,360 | .. |
| | *Central Circle.* | | | | | | | | |
| Nellore .. | Firewood .. .. .. | .. | 19,294 | 2,267 | .. | 4,123 | 645 | .. | 1,622 |
| Cuddapah .. | Redwood roots and stumps. | .. | .. | .. | .. | 50 | 11 | 11 | .. |
| | Miscellaneous .. .. | .. | 245 | 40 | .. | 241 | 79 | 39 | .. |
| | Total, Timber .. | .. | 245 | 40 | .. | 291 | 90 | 50 | .. |
| | Bamboos .. .. .. | .. | .. | .. | 700 | .. | 49 | 49 | .. |
| | Minor produce .. .. | Mds. 4,464 | .. | 585 | Mds. 562 | .. | 354 | .. | 231 |
| North Arcot .. | Redwood .. .. | .. | 958 | 240 | .. | .. | .. | .. | 240 |
| | Miscellaneous timber .. | .. | 220 | 31 | .. | 25 | 25 | .. | 6 |
| | Total, Timber .. | .. | 1,178 | 271 | .. | 25 | 25 | .. | 246 |
| | Firewood .. .. .. | .. | 6,095 | 1,373 | .. | 30,071 | 2,179 | 806 | .. |
| | Bamboos .. .. .. | 750 | .. | 15 | .. | 680 | 127 | 112 | .. |
| South Arcot .. | Sandalwood roots .. | .. | 73 | 359 | .. | .. | .. | .. | 359 |
| | Miscellaneous timber .. | .. | 2 | 1 | .. | .. | .. | .. | 1 |
| Trichinopoly .. | Firewood .. .. .. | .. | 2,960 | 182 | .. | .. | .. | .. | 182 |
| Salem .. .. | Sandalwood .. .. | .. | 531 | 6,271 | .. | 41 | 610 | .. | 5,662 |
| | Miscellaneous timber .. | .. | .. | .. | .. | 9 | 9 | 9 | .. |
| | *Southern Circle.* | | | | | | | | |
| Madura .. | Firewood .. .. .. | .. | 10,435 | 1,169 | .. | 4,713 | 514 | .. | .. |
| | Charcoal .. .. .. | .. | 686 | 58 | .. | .. | .. | .. | 1,713 |

## Abstract showing the Value of Timber and other produce at sale depôts for the year 1893–94—*contd.*

| District. | Description of timber or produce. | On hand at commencement of the year. | | | On hand at end of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | *Southern Circle*—cont. | | | Rs. | | | Rs. | Rs. | Rs. |
| Tinnevelly .. | Miscellaneous timber .. | .. | 385 | 191 | .. | 1,213 | 965 | 774 | .. |
| North Coimbatore. | Sandalwood billet and chips .. .. .. | .. | 627 | 16,441 | .. | 2,318 | 25,603 | 9,162 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 58 | .. | 232 | 232 | .. |
| South Coimbatore. | Teak .. .. .. | .. | 18,498 | 27,888 | .. | .. | .. | .. | 27,888 |
| | Rosewood .. .. .. | .. | .. | .. | 3 | 88 | 147 | 147 | .. |
| | Ironwood .. .. .. | .. | .. | .. | 9 | 262 | 94 | 94 | .. |
| | Miscellaneous .. .. | .. | 303 | 150 | 893 | 30,700 | 11,521 | 11,371 | .. |
| | Total, Timber .. | .. | 18,801 | 28,038 | .. | 31,050 | 11,762 | .. | 16,276 |
| Nilgiris .. | Miscellaneous timber .. | .. | 251 | 219 | .. | 7 | 6 | .. | 213 |
| | Firewood and charcoal .. | .. | 26,979 | 1,940 | .. | 30,257 | 2,190 | 250 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 36 | .. | 36 | 36 | .. |
| South Malabar .. | Teak .. .. .. | .. | 2,179 | 3,268 | .. | .. | .. | .. | 3,268 |
| South Canara .. | Teak .. .. .. | .. | 467 | 759 | 10 | 328 | 369 | .. | 390 |
| | Rosewood .. .. .. | .. | 25 | 27 | 3 | 57 | 91 | 64 | .. |
| | Vengai .. .. .. | .. | 67 | 60 | .. | .. | .. | .. | 60 |
| | Miscellaneous .. .. | .. | 2,261 | 2,168 | 9 | 212 | 185 | .. | 1,983 |
| | Total, Timber .. | .. | 2,820 | 3,014 | .. | 597 | 645 | .. | 2,369 |
| | **ABSTRACT.** | | | | | | | | |
| | *Northern Circle.* | | | | | | | | |
| | Timber .. .. .. | .. | 4,627 | 1,882 | .. | 18,312 | 7,640 | 5,758 | .. |
| | Minor produce .. .. | Mds. 56 | .. | 139 | .. | .. | .. | .. | 139 |
| | *Central Circle.* | | | | | | | | |
| | Timber .. .. .. | .. | 1,425 | 312 | .. | 325 | 124 | .. | 188 |
| | Sandalwood .. .. | .. | 604 | 6,630 | .. | 41 | 610 | .. | 6,020 |
| | Firewood .. .. .. | .. | 28,349 | 3,822 | .. | 34,194 | 2,824 | .. | 998 |
| | Bamboos .. .. .. | 750 | .. | 15 | 1,380 | .. | 176 | 161 | .. |
| | Minor produce .. .. | Mds. 4,464 | .. | 585 | Mds. 562 | .. | 354 | .. | 213 |
| | *Southern Circle.* | | | | | | | | |
| | Timber .. .. .. | .. | 24,436 | 34,730 | .. | 32,867 | 13,378 | .. | 21,352 |
| | Sandalwood .. .. | .. | 627 | 16,441 | .. | 2,318 | 25,603 | 9,162 | .. |
| | Firewood .. .. .. | .. | 38,100 | 3,167 | .. | 34,970 | 2,704 | .. | 463 |
| | Minor produce .. .. | .. | .. | .. | Mds 94 | .. | 268 | 268 | .. |
| | GRAND TOTAL. | | | | | | | | |
| | Timber .. .. .. | .. | 30,488 | 36,924 | .. | 51,504 | 21,142 | .. | 15,782 |
| | Sandalwood .. .. | .. | 1,231 | 23,071 | .. | 2,359 | 26,213 | 3,142 | .. |
| | Firewood .. .. .. | .. | 66,449 | 6,989 | .. | 69,164 | 5,528 | .. | 1,461 |
| | Bamboos .. .. .. | 750 | .. | 15 | 1,380 | .. | 176 | 161 | .. |
| | Minor produce .. .. | Mds. 4,520 | .. | 724 | Mds. 656 | .. | 622 | .. | 102 |

## ANNUAL FORM No. 73-B.

*Forest Department, Madras Presidency.*

ABSTRACT showing the Value of Live-stock, Stores, Tools and Plant for the year 1893–94.

| Districts. | SURVEYING, &c., INSTRUMENTS | | | | TOOLS | | | | MACHINERY | | | | FURNITURE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Northern Circle.* | | RS. | | RS. | | RS. | | RS. | | RS. | | RS. | | RS. | | RS. |
| Direction | 24 | 402 | 24 | 402 | .. | .. | .. | .. | .. | .. | .. | .. | 109 | 1,790 | 109 | 1,790 |
| Ganjám | 47 | 852 | 47 | 852 | 189 | 280 | 630 | 667 | .. | .. | .. | .. | 58 | 422 | 78 | 528 |
| Vizagapatam | 18 | 343 | 20 | 356 | 75 | 65 | 164 | 206 | .. | .. | .. | .. | 40 | 286 | 45 | 371 |
| Gódávari | 56 | 534 | 56 | 534 | 602 | 1,109 | 648 | 1,244 | .. | .. | .. | .. | 85 | 658 | 85 | 658 |
| Kistna .. | 60 | 739 | 66 | 1,032 | 416 | 451 | 465 | 594 | .. | .. | .. | .. | 67 | 585 | 77 | 689 |
| Anantapur | 44 | 247 | 44 | * 238 | 149 | 614 | 223 | 825 | .. | .. | .. | .. | 78 | 470 | 80 | * 466 |
| Bellary .. | * 37 | 137 * | 65 | 162 | 267 | 437 | 268 | 433 | .. | .. | .. | .. | 38 | 232 | 38 | * 220 |
| Kurnool | 55 | 507 | 57 | 476 | 572 | 719 | 727 | 1,085 | .. | .. | .. | .. | 58 | 456 | 102 | 690 |
| Total .. | 341 | 3,761 | 379 | 4,052 | 2,270 | 3,675 | 3,125 | 5,054 | .. | .. | .. | .. | 533 | 4,899 | 614 | 5,412 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Direction | 19 | 249 | 19 | 249 | .. | .. | .. | .. | .. | .. | .. | .. | 51 | 186 | 51 | 186 |
| Nellore .. | 61 | 404 | ‡ 52 | 367 | 473 | 1,211 | 473 | * 1,111 | 7½ miles, 15 | 34,802 | 9¾ miles, 21 | ‖ 45,735 | 76 | 423 | 76 | 423 |
| Cuddapah | 103 | 690 | 202 | 709 | 474 | 1,396 | 472 | * 1,391 | 3½ miles | 13,967 | 3½ miles | 13,967 | 114 | 813 | 116 | 816 |
| Chingleput | 23 | 380 | 21 | * 368 | 393 | 733 | 393 | 733 | .. | .. | .. | .. | 81 | 762 | 79 | * 756 |
| North Arcot | 21 | 632 | *21 | * 602 | 1,360 cwt. 32·94 | 2,513 | 1,369 | * 2,323 | 2⅝ miles, 48 | 11,021 | § 13 | 88 | 117 | 547 | 132 | * 544 |
| South Arcot | 118 | 1,415 | 118 | 1,415 | 919 | 662 | 995 | 706 | 7 | 271 | 7 | 271 | 170 | 1,550 | 178 | 1,590 |
| Tanjore | 23 | † .. | 25 | † .. | 210 | 16 | * 157 | 29 | .. | .. | .. | .. | 46 | 17 | 79 | 187 |
| Trichinopoly | 9 | 412 | 9 | 412 | 1,037 | 1,232 | 1,040 | 1,233 | .. | .. | .. | .. | 66 | 518 | 75 | 579 |
| Salem | 108 | 521 | 121 | 1,219 | 1,145 | 2,167 | 1,448 | 2,604 | 2 | 21 | 2 | 21 | 321 | 1,481 | 325 | 1,487 |
| Total .. | 485 | 4,703 | 588 | 5,341 | 6,011 cwt. 32·94 | 9,930 | 6,347 | 10,130 | 72 miles 13¼ | 60,082 | 43 miles 13¼ | 60,082 | 1,042 | 6,297 | 1,111 | 6,568 |

* Collectors do not explain the variation between these and previous years' figures.
† Value not given. ‡ Nine rendered unserviceable.
§ Tram materials transferred to Nellore.
‖ Value of 2½ miles of tramway transferred from North Arcot has been included.

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1893–94—*cont.*

| Districts. | Buildings | | | | Live-stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Northern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 27 | 121 | .. | .. | 160 | 2,313 | 133 | 2,192 | .. | 121 |
| Ganjám .. .. | 20 | 11,148 | 21 | 14,834 | ‖ 2 | 3,000 | † 1 | 1,500 | 17 | 183 | * .. | .. | 333 | 15,885 | 777 | 18,381 | 2,496 | .. |
| Vizagapatam .. .. | 16 | 855 | 18 | 1,035 | .. | .. | .. | .. | 1 | 10 | 1 | 10 | 160 | 1,559 | 248 | 1,978 | 419 | .. |
| Gódávari .. .. | 26 | 4,261 | 29 | 5,256 | ‡ 1 | 1,500 | .. | .. | § 365 | § 2,538 | 467 | 3,347 | 1,135 | 10,600 | 1,285 | 11,039 | 439 | .. |
| Kistna .. .. .. | 48 | 8,429 | 51 | 8,576 | .. | .. | .. | .. | 6 | 2,460 | 6 | 2,460 | 597 | 12,664 | 665 | 13,351 | 687 | .. |
| Anantapur .. .. | 13 | 12,567 | 13 | 12,800 | .. | .. | .. | .. | .. | .. | .. | .. | 284 | 13,898 | 360 | 14,329 | 431 | .. |
| Bellary .. .. .. | 4 | 1,305 | 14 | 2,652 | .. | .. | .. | .. | 26 | 89 | 26 | * 82 | 372 | 2,200 | 411 | 3,549 | 1,349 | .. |
| Kurnool .. .. | 53 | 19,932 | * 52 | 23,200 | .. | .. | .. | .. | 16 | 70 | 16 | * 63 | 754 | 21,684 | 954 | 25,514 | 3,830 | .. |
| Total .. | 180 | 58,497 | 198 | 68,353 | 3 | 4,500 | 1 | 1,500 | 458 | 5,471 | 516 | 5,962 | 3,785 | 80,803 | 4,833 | 90,333 | 9,530 | .. |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 19 | 40 | .. | .. | 89 | 475 | 70 | 435 | .. | 40 |
| Nellore .. .. .. | 9 | 2,079 | 9 | 2,079 | .. | .. | .. | .. | 240 | 5,154 | 240 | 5,154 | 874 miles 7¼ | 44,073 | 871 miles. 9¾ | 54,869 | 10,796 | .. |
| Cuddapah .. .. | 104 | 18,982 | 106 | 19,024 | 2 | 37 | 2 | 37 | .. | .. | .. | .. | 797 miles. 3½ | 35,885 | 898 miles 3½ | 35,944 | 59 | .. |
| Chingleput .. .. | 17 | 3,288 | * 16 | 3,273 | .. | .. | .. | .. | 31 | 427 | 31 | 27 | 545 | 5,190 | 540 | 5,157 | .. | 33 |
| North Arcot .. .. | 37 | 6,725 | 38 | 7,941 | .. | .. | .. | .. | .. | . | .. | .. | 1,583 miles. 2½ cwt. 32·94 | 21,438 | 1,573 | 11,498 | .. | 9,940 |
| South Arcot .. .. | 13 | 7,650 | 16 | 8,637 | .. | .. | .. | .. | 584 | 1,612 | 584 | 1,612 | 1,811 | 13,160 | 1,898 | 14,231 | 1,071 | .. |
| Tanjore .. .. | 5 | 326 | 5 | * 336 | .. | .. | .. | .. | 1 | 60 | * .. | * 23 | 285 | 419 | 266 | 575 | 156 | .. |
| Trichinopoly .. .. | 10 | 2,062 | * 9 | 1,832 | .. | .. | .. | .. | 229 | 368 | 238 | 386 | 1,351 | 4,592 | 1,371 | 4,442 | .. | 150 |
| Salem .. .. .. | 17 | 12,886 | 17 | 12,886 | .. | .. | .. | .. | 2 | 14 | 2 | 14 | 1,595 | 17,090 | 1,915 | 18,231 | 1,141 | .. |
| Total .. | 212 | 53,998 | 216 | 56,008 | 2 | 37 | 2 | 37 | 1,106 | 7,275 | 1,095 | 7,216 | 8,930 miles. 13½ cwt. 32·94 | 1,42,322 | 9,402 miles. 13¼ | 1,45,382 | 3,06 | .. |

* Collectors do not explain the variation between these and previous years' figures.
‡ Died during 1893–94.
§ Correct figures as now reported.
† Transferred from another district.
‖ Sold.

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1893–94—*cont.*

| Districts. | Surveying, &c., Instruments | | | | Tools | | | | Machinery | | | | Furniture. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Direction .. .. .. .. | 65 | 641 | 75 | 750 | 1 | 30 | 1 | 30 | .. | .. | .. | .. | 90 | 682 | 94 | 705 |
| Madura .. .. .. .. | 56 | 823 | 60 | 1,007 | 606 | 5,295 | 643 | 5,436 | .. | .. | .. | .. | 144 | 1,314 | 188 | 1,787 |
| Tinnevelly .. .. .. .. | 62 | 960 | 60 | * 920 | 840 | 1,237 | 728 | 2,027 | 14 | 178 | 14 | 178 | 310 | 1,866 | 335 | 1,977 |
| North Coimbatore .. .. .. | 37 | 630 | 37 | 699 | 522 | 1,251 | 426 | 1,195 | .. | .. | .. | .. | 160 | 1,383 | 166 | 1,412 |
| South do. .. .. .. | 50 | 59 | 58 | 1,000 | † 439 | † 337 | 370 | 306 | 3,206 | 42,447 | 3,289 | 42,677 | 171* | 49 | 239 | 1,235 |
| Nilgiris .. .. .. .. | 26 | 262 | 26 | 262 | 651 | 1,270 | 784 | 1,472 | 4 | 1,820 | 4 | 1,820 | 74 | 540 | 74 | 540 |
| North Malabar .. .. .. | 44 | 1,257 | 46 | * 701 | 68 | 902 | 73 | * 792 | .. | .. | .. | .. | .. | .. | .. | .. |
| South do. .. .. .. | 13 | 409 | 13 | 409 | 472 | 513 | 532 | 588 | 10 | 60 | 10 | 60 | 40 | 395 | 40 | 395 |
| South Canara .. .. .. | 42 | 577 | 85 | 870 | 407 | 544 | 498 | 666 | .. | .. | .. | .. | 112 | 1,018 | 140 | 1,195 |
| Total .. | 395 | 5,618 | 460 | 6,618 | 4,006 | 11,379 | 4,055 | 12,512 | 3,234 | 44,505 | 3,317 | 44,735 | 1,101 | 7,247 | 1,276 | 9,246 |
| Grand Total .. | 1,221 | 14,082 | 1,427 | 16,011 | 12,287 cwt. 32·94 | 24,984 | 13,527 | 27,696 | 3,306 miles 13½ | 1,04,587 | 3,360 miles 13¼ | 1,04,917 | 2,676 | 18,443 | 3,001 | 21,226 |

* Collectors do not explain the variation between these and previous years' figures.

† Correct figures as now reported.

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1893-94—*cont.*

| Districts. | Buildings | | | | Live-stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 139 | 364 | 637 | 554 | 295 | 1,717 | 807 | 2,039 | 322 | .. |
| Madura .. .. .. | 91 | 24,252 | 97 | 26,974 | .. | .. | .. | .. | .. | .. | .. | .. | 897 | 31,684 | 988 | 35,204 | 3,520 | .. |
| Tinnevelly .. .. | 94 | 16,556 | 98 | 18,383 | .. | .. | .. | .. | .. | .. | .. | .. | 1,320 | 20,797 | 1,235 | 23,485 | 2,688 | .. |
| North Coimbatore .. | 43 | 9,252 | 51 | 13,020 | .. | .. | .. | .. | 148 | 291 | 253 | 472 | 910 | 12,807 | 933 | 16,798 | 3,991 | .. |
| South do. .. | 29 | 157 | 40 | 25,457 | 7 | 7,700 | 10 | 10,200 | † 367 | † 612 | * 277 | 572 | † 4,269 | † 51,361 | 4,283 | 81,447 | 30,086 | .. |
| Nilgiris .. .. .. | 48 | 6,203 | 48 | 6,203 | 5 | 2,600 | 5 | 2,600 | 11 | 80 | 15 | 128 | † 819 | † 12,775 | 956 | 13,025 | 250 | .. |
| North Malabar .. | .. | .. | .. | .. | 9 | 7,850 | 10 | 8,450 | 7 | 57 | 8 | 61 | 128 | 10,066 | 137 | 10,004 | .. | 62 |
| South do. .. .. | 24 | 27,273 | 24 | 28,877 | 21 | 31,400 | 23 | 33,000 | 117 | 1,118 | 117 | 1,118 | 697 | 61,168 | 759 | 64,447 | 3,279 | .. |
| South Canara .. .. | 20 | 3,208 | 22 | 7,533 | .. | .. | .. | .. | 320 | 1,149 | 456 | 1,213 | 901 | 6,496 | 1,201 | 11,477 | 4,981 | .. |
| Total .. | 349 | 86,901 | 380 | 1,26,447 | 42 | 49,550 | 48 | 54,250 | 1,109 | 3,671 | 1,763 | 4,118 | 10,236 | 2,08,871 | 11,299 | 2,57,926 | 49,055 | .. |
| Grand Total .. | 741 | 1,99,396 | 794 | 2,50,808 | 47 | 54,087 | 51 | 55,787 | 2,673 | 16,417 | 3,374 | 17,296 | 22,951 miles. 13¼ cwt. 32·94 | 4,31,996 | 25,534 miles. 13¼ | 4,93,641 | 61,645 | .. |

* Collectors do not explain the variation between these and previous year's figures.

† Correct figures as now reported.

ANNUAL FORM No. 74.

*Forest Department, Madras Presidency.*

STATEMENT of Live-stock during 1893-94 (from 1st July 1893 to 30th June 1894).

PART I.

*In possession of the reporting officers throughout the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Cost of monthly keep, including servants and food. | | | |
|---|---|---|---|---|---|---|
| | *Elephants.* | | | Rs. | A. | P. |
| South Coimbatore. | 1. Sankara | 28th June 1888. Received from North Malabar. | Per head .. | 42 | 10 | 8 |
| | 2. Chloe | | | | | |
| | 3. Karthiyayani | August 1888. Received from South Malabar. | | | | |
| | 4. Peria Rani | May 1889. Received from South Malabar. | | | | |
| | 5. Sinna Rani | 9th August 1891. Received from South Malabar. | | | | |
| | 6. Abdul | Captured, 4th October 1891 | | | | |
| | 7. Phyllis II | Captured, 25th September 1892. | | | | |
| | 8. Jumbu II | Captured, 25th September 1892. | | | | |
| Nilgiris .. .. | 1. Latchmi | Transferred from the Anamalais on the 30th January 1882. | Do. .. | 17 | 1 | 5 |
| | 2. Chinna Latchmi | Transferred from the Anamalais on the 30th January 1882. | | | | |
| | 3. Mabu Baksh | Born in January 1885 | | | | |
| | 4. Akbar Baksh | Do. on 22nd February 1888 | | | | |
| | 5. Meenatchi | Do. on 9th April 1889 | | | | |
| North Malabar .. | 1. Phyllis | Purchased in January 1878 | Do. .. | 43 | 0 | 9 |
| | 2. Peri | Captured in April 1889 | | | | |
| | 3. Kalyani | Purchased in October 1889 | | | | |
| | 4. Lallameah | Captured in March 1891 | | | | |
| | 5. Cherry | Do. in May 1892. | | | | |
| | 6. Charlie | Do. in February 1893. | | | | |
| South Malabar .. | 1. Vixen | Transferred from Wynaad in 1882 | Do. .. | 29 | 5 | 5 |
| | 2. Peyru | Transferred from Wynaad in 1882 | | | | |
| | 3. Samson | Purchased from Mr. Morgan in 1885. | | | | |
| | 4. Eva | Purchased from Mr. Morgan in 1885. | | | | |
| | 5. Thebau | Captured on 3rd January 1886 | | | | |
| | 6. Juno | Do. on 17th February 1886 | | | | |
| | 7. Jupiter | Do. on 9th January 1887 | | | | |
| | 8. Mars | Do. on 24th January 1887 | | | | |
| | 9. Maharaj | Transferred from Wynaad in 1888-89. | | | | |
| | 10. Jembu | Transferred from Wynaad in 1888-89. | | | | |
| | 11. Gordon | Captured on 11th February 1889 | | | | |
| | 12. Eddy | Do. on 10th February 1890 | | | | |
| | 13. Mary | Do. on 31st March 1890 | | | | |
| | 14. Loo | Do. on 24th April 1890 | | | | |
| | 15. Hercules | Do. on 24th December 1890 | | | | |
| | 16. Parvathi | Transferred from South Coimbatore in August 1891. | | | | |
| | 17. Jessie | Captured on 10th December 1891 | | | | |
| | 18. Tippu | Do. on 25th February 1893. | | | | |
| | 19. Maharani | Do. on 2nd March 1893. | | | | |
| | 20. Vernus | Do. on 1st April 1893. | | | | |
| | *Other Cattle.* | | | | | |
| North Malabar .. | Three bullocks | Purchased in May 1890 and in June 1892. | Do. .. | 9 | 7 | 4 |

## Statement of Live-stock during 1892-93—*cont.*

### Part II.

*Received during the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Cost of monthly keep, including servants and food. | |
|---|---|---|---|---|
| | *Elephants.* | | | Rs. A. P. |
| Ganjám .. .. | Captain Gunning .. | Purchased in July 1888. Transferred from the charge of the Conservator in January 1894. (Omitted to be shown in last year's return). | Per head .. | 43 8 10 |
| North Malabar .. | Bagavathi .. .. | Captured, on 27th June 1893 .. .. | Do. .. | 27 8 0 |
| South Malabar .. | 1. Alice .. .. .. | Transferred from South Coimbatore in December 1893. | Do. .. | 19 7 10 |
| | 2. Pragasam .. .. | | Do. .. | 19 8 4 |
| | 3. Dora .. .. .. | Captured, 16th March 1894 .. .. | Do. .. | 56 6 7 |

### Part III.

*Gone off the list during the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Cost of monthly keep, including servants and food. | | How disposed of. |
|---|---|---|---|---|---|
| | *Elephants.* | | | Rs. A. P. | |
| Ganjám .. | Badamoti Guz .. .. | Transferred from the Gódávari district in 1891-92. | Per head .. | 38 0 6 | Sold to the Government Agent, Ganjám, for Rs. 4,000 in December 1893. |
| | Jung Bahadur .. .. | | | | |
| Gódávari .. | Poun Guz .. .. | Purchased in July 1888 .. | Do. .. | 42 10 8 | Died on the 20th August 1893. |
| South Coimbatore. | 1. Alice .. .. .. | Captured, 23rd September 1892. | Do. .. | 42 10 8 | Transferred to South Malabar in December 1893. |
| | 2. Pragasam .. .. | Captured, 25th September 1892. | | | |
| | 3. Cerise .. .. .. | Captured, 23rd September 1892. | Do. .. | .. | Died in June 1893. |
| | 4. Ranger .. .. | | | | |
| South Malabar. | 1. Flo .. .. .. | Born on 10th October 1892. | Do. .. | .. | Died on the 18th October 1893. |

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

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READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 7th December 1894, Forest No. 762 :—

*Read*—files of reports received from Collectors and Conservators on the progress of Forest Administraiion for 1893–94.

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*Resolution*—dated 7th December 1894, Forest No. 762.

The Board begs to submit to Government the report on the progress of Forest Administration in the Madras Presidency for the year ending 30th June 1894.

2. The Board has interpolated a few remarks where they appeared called for in the portions of Chapters II and III relating to Demarcation and Working-plans and in Chapters IV and V which, as well as Appendix G, have been drawn up in accordance with the instructions issued in Board's Proceedings, Forest No. 529, dated 9th August 1894, by Mr. Peet, Acting Conservator of Forests, First Grade.

3. The late submission of the report is due to the inordinate delay on the part of the Collector of Madura whose report was not received till the 26th October 1894, in spite of several reminders and telegrams. The statistical returns, chiefly those relating to demarcation, were in several cases found to be inaccurate and revised returns had to be called for. Complete information for the compilation of the statistical returns was thus not available till the 7th November last.

(True Extract.)

(Signed) L. M. WYNCH,
Secretary.

To the Secretary to Government, Revenue Department.

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ORDER—dated 22nd January 1895, No. 31, Revenue.

Forest No. 5.

With its Proceedings read above, the Board submits the Forest Administration Report for the Forest year 1893–94. The report was received in the Government office on December 8, the date prescribed for its submission being November 15, and the Government notes that the want of punctuality is ascribed to inordinate delay on the part of the Collector of Madura.

2. It is observed that the preparation of the main body of the report was this year entrusted to the Senior Conservator, and the duty has been well performed by Mr. Peet, who was in charge of the Central Circle during Mr. Popert's absence on leave. This method of preparation was suggested in paragraph 13 of the Government Order on last year's report, and the Government of India, while expressing its satisfaction at the proposed change, intimated that the Senior Conservator might with advantage deal with all technical subjects of importance. The necessary orders had been issued by the Board of Revenue before the receipt of the letter from the Government of India reviewing the report for 1892–93, and section 258 of the revised Forest Code now provides that such portions of the annual report as the Board may select should be drafted by the Senior Conservator. It is the intention of His

Excellency the Governor in Council that all technical subjects shall in future be reviewed by a professional officer, and it is hoped that the want of scientific criticism noticeable in previous reports may in this way be avoided. The present system is also open to objection on various other grounds, and its improvement is under further consideration.

3. The revised edition of the Forest Code has been approved by Government and came into force on January 1, 1895. The revised Code follows as closely as possible the latest edition of the India Forest Code (4th Edition), adopting also its general arrangement. The principal alterations introduced are in the matter of accounts, and an endeavour has been made to simplify the work in District Forest offices. The existing system undoubtedly throws a good deal of unnecessary labour on the district clerical establishments, which in any case are insufficient for the work required of them. The Board again draws attention to the urgent need for some improvement in this direction, as well as to the serious consequences involved by the inadequacy of the subordinate forest staff.

4. *Areas and boundaries.*—The areas under the control of the department at the commencement and at the close of the period under review are shown in detail in the statement appended to paragraph 9 of the report and are reproduced in abstract below :—

| Class of lands. | Area on 1st July 1893. | Added during 1893-94. | Excluded during 1893-94. | Net increase or decrease. | Area on 30th June 1894. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS | SQ. MLS. | SQ. MLS | SQ. MLS. |
| Reserved forests .. .. .. .. .. | 9,436 | (a) 1,353 | 3 | + 1,350 | 10,786 |
| Do. lands .. .. .. .. .. | 7,751 | (b) 864 | 1,391 | — 527 | 7,224 |
| Total .. | 17,187 | 2,217 | 1,394 | + 823 | 18,010 |

(a) A net addition of 5 square miles due to rectification of areas.
(b) Do. 14 do. do.

5. The total area under control, as shown above, now covers 18,010 square miles, and is 34·7 *per cent.* of the whole extent of unoccupied lands at the disposal of Government. The maximum area that will eventually be reserved is estimated at 22,387 square miles, so that initial action has still to be taken in regard to 4,377 square miles of country. On this estimate the work remaining to be done is calculated as follows :—

| | SQ.MLS. |
|---|---|
| Areas notified under section 4—settlement not completed or awaiting final notification under section 16 ... ... ... ... | 5,318 |
| Areas reserved under section 26 but not yet notified under section 4 ... ... ... ... ... ... ... ... | 1,906 |
| Areas not yet reserved but proposed for reservation ... ... | 4,377 |
| Total ... | 11,601 |

The average area finally gazetted as reserved forest during each of the last four years is 1,763 square miles, and at this rate it will take between six and seven years to complete the work of forest settlement in this Presidency. It seems probable, however, that the total extent of land required for reservation has in some districts been over-estimated. The general principle is that, if other land is available for forest requirements, areas containing cultivable land, which the extension of cultivation would in the course of time bring permanently under the plough, are not to be enclosed.* It appears that in some cases this principle has not been kept in view, and in the Erode taluk of the Coimbatore district a very considerable area of cultivable land, which had been taken up under section 26 of the Act, has been recently set free for occupation. As the Government of India in its Circular Resolution No. 22-F., dated the 19th October 1894, clearly points out, "the claims of cultivation are," subject

* *Vide* paragraph 7 of Government of India Resolution, dated 19th October 1894.

to certain specified conditions, "stronger than the claims of forest preservation." The Board has now been requested to ascertain whether similar mistakes have been made elsewhere, and to submit a general return of all cultivable lands proposed for reservation.

6. The area proposed for reservation may, moreover, require considerable modification in the light of the policy recently enunciated by the Government of India. In its review of the report for 1892–93, that Government remarked that "the adequacy or inadequacy of the proportion reserved in each district" appeared to require further examination. The Board was requested to bear this fact in mind when preparing the present report. The matter would seem to have been overlooked, for the question of the adequacy of reservation is not discussed, although a statement has this year been added to the report showing for each district the percentages of the area already under control and of the maximum area proposed for reservation. It is, however, impossible to institute any such examination until the vital question of the future policy of the department has been decided. The selections and proposals made during the last four years in each district have been framed upon the lines laid down in G.O., dated 29th October 1890, No. 844. In this order, His Excellency the Governor in Council set forth the principles on which the administration of the forests in the Madras Presidency was in future to be based, and the scheme has been fully carried into effect in some districts, whilst in all others final proposals for reservation are in course of preparation. The policy embodied in the Government of India Resolution of 19th October 1894, No. 22-F., and in the subsequent circular letter of the 31st idem, No. 24-F., coincides in its main principles with the Madras orders of October 1890, but some differences arise in regard to the method of carrying the policy into effect. The strict enforcement of the orders of the Government of India would involve the abandonment of large areas which have already been reserved for the purposes of supplying fuel and fodder or for grazing only, and proposals for further reservation would require to be entirely remodelled. To the adoption of such a course His Excellency the Governor in Council is strongly opposed, and a reference has been made to the Government of India, but until final orders are received, it is not possible to assert that reservation in any district is either adequate or inadequate.

7. *Settlement.*—The actual outturn of forest settlement work as gauged by the number and area of reserves, for which final notifications were issued during the year, shows a great falling off, 197 blocks with an aggregate area of 1,350 square miles having been so gazetted, as against 284 blocks of 2,261 square miles during the previous 15 months. Moreover, at the close of 1892–93 there were 95 blocks of an aggregate area of 735 square miles already notified under section 16, though their reservation did not take effect until the following year, so that the area of reserves to be credited to 1893–94 is reduced to 615 square miles comprising 102 blocks: adding 44 blocks of 128 square miles notified in the year with effect from a date subsequent to 30th June 1894, the work of the year comes on this calculation to 146 blocks of a total extent of 743 square miles.

8. The Board deprecates any criticism of the work of Forest Settlement-officers being based on the actual area finally notified during any particular year, and it is clear that the value of such statistics is discounted by the fact that the notifications do not always take effect during the year of issue. The Government is not, however, prepared to admit that "the area constituted reserved forest in a given year affords no criterion of the work done by the Forest Settlement-officers." The work must be gauged by results, and although numerous particulars besides the size and number of blocks settled have to be taken into consideration (a fact which has been noted in several previous reviews), the area actually gazetted must form the basis of any comparison.

9. Judged by this standard, the progress of forest settlement work during 1893–94, as shown in paragraph 7 *supra*, was unsatisfactory. The results shown against Mr. Lever are particularly poor; a similar remark was made in last year's review, and the Government regrets to observe that there has been no improvement. As observed by the Board, but little progress has been made in the notification of the older blocks in any district, except Anantapur and Cuddapah. The figures given in

appendix A have been considerably modified and are presumably more correct than in previous years, but the form of the statement itself has been revised. The appendices are not prescribed by the Code and are inserted to elucidate the body of the report, but the same form should, as far as possible, be adopted year after year in order to facilitate comparison. The Government considers that more work should have been accomplished by Revenue Divisional officers. The Senior Assistant Collector, Ganjám, the Head Assistant Collectors, Vizagapatam, Coimbatore and South Canara, and all the Divisional officers in Malabar have apparently taken no steps to carry out the work entrusted to them. The Collectors of Ganjám and Vizagapatam were specially enjoined in paragraph 5 of last year's review to see that the work was taken in hand as soon as possible, and these officers will now be called upon for an explanation. It is possible that the time at the disposal of Revenue officers is insufficient to allow of very rapid progress, but this cannot account for the entire neglect of the work. The Board will now call on the Collectors of all the districts, shown in abstract F of the report, except the Nilgiris and Chingleput, for an explanation on this point and as to the steps they propose to take to hasten operations where the work is still in arrears.

10. *Demarcation.*—The following statement shows the outturn under the various classes of demarcation during the past three years:—

| — | 1891–92. | 1892–93 (15 months). | 1893–94. |
|---|---|---|---|
| | MLS. | MLS. | MLS. |
| Preliminary demarcation .. .. .. .. | 1,864 | 2,627 | 3,482 |
| Permanent demarcation .. .. .. .. | 2,429 | 2,837 | 2,355 |
| Re-clearing old lines .. .. .. .. .. | 173 | * | 1,707 |
| Total .. | 4,466 | 5,464 | 7,544 |

* The work done was not shown in last year's returns.

The opening balances for 1893–94, as shown in abstract G, do not in all cases tally with the figures given in the report of the previous year, but the variations are not very large. This fact is satisfactory and tends to show that the statistics of demarcation, now furnished, are less untrustworthy than those given in 1891–92 and previous years. The average charges incurred on permanent demarcation vary enormously in the different districts, Kurnool coming first with a rate of Rs. 43 per mile, while in Gódávari, Bellary and Salem the rate was only Rs. 5 or less. This variation is not fully explained, and it is not stated whether the work done is commensurate with the requirements of administration. It is observed that fuller information on these points will be embodied in future reports. The average rate for all kinds of demarcation (excluding the re-clearing of old lines), calculated on the audited figures of expenditure, comes to slightly less than Rs. 8½ per mile, as against Rs. 13½ in the previous season: this large reduction in the cost and the increase in actual outturn of work are satisfactory.

11. *Surveys.*—This subject is dealt with in chapter III of the Board's report. The outturn of work recorded by the Survey of India party was satisfactory. The Government learns with regret that the boundary-traversing work in North Arcot was vitiated by the faulty nature of the demarcation. Great care should be taken to avoid such mistakes in future, and the District officers should be called upon to certify to the general accuracy of the boundary marks before the survey of a reserve is started. Departmental survey has been separately reported upon and the Superintendent, Revenue Survey, who was consulted, has reported favorably upon the work done, but the Government notes that, in the opinion of the Conservators, the progress made was not satisfactory. The system adopted in the preparation of reserve maps is described in the Board's report. The instructions detailed in paragraph 27 have been embodied in section 81 of the revised Forest Code, and if these are carefully observed, the stock of forest maps should amply suffice for all requirements.

12. *Working Plans.*—The steps taken in the various districts towards the formation of working plans are detailed in paragraph 28 of the report, and as observed by

the Board, not much has yet been accomplished in this direction. It is however generally acknowledged that in Madras the preparation of scientific working plans must, except in a few isolated cases, await the completion of forest settlement, and on this understanding His Excellency in Council has accepted the provisions of the revised Code in regard to reserve books and forest journals. It is intended that the former record should in course of time contain a complete statistical history of the forest, or forests, to which it relates, whilst the latter provides for each officer in charge of a range a permanent note-book in which the results of his observations are from time to time to be recorded. Journals of this description are already being maintained under the old Code, but the reserve book takes the place of two registers formerly prescribed, and the object of the two amended records is to furnish materials for the eventual preparation of working plans. A special officer has been appointed to prepare a regular working plan for the Nilambúr Plantations, as the provisions of the preliminary scheme come to an end in March 1895.

13. *Forest offences.*—The following statement shows the number and disposal of cases during the year, as compared with the preceding season :—

| | Number of cases for disposal. | | | Number of cases disposed of. | | | | Number of acquittals. | Per centage of cases compounded to cases disposed of. | Percentage of acquittals to cases dealt with by Magistracy. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cases pending. | New cases. | Total. | Withdrawn. | Compounded. | Dealt with by Magistracy. | Total. | | | |
| 1892-93 .. .. .. | 1,556 | 10,905 | 12,461 | 696 | 4,106 | 5,676 | 10,478 | 1,218 | 39·2 | 21·5 |
| 1893-94 .. .. .. | 1,965 | 10,007 | 11,972 | 794 | 5,309 | 4,231 | 10,334 | 919 | 51·3 | 21·6 |

The district figures are very carefully analysed in the report, but the Board points out the difficulty of forming an opinion on this subject from the annual returns. The statistics of cases reported, withdrawn, compounded or prosecuted, and in the last instance the details of acquittals or convictions, are often very misleading and do not afford a firm basis from which the administration of the penal clauses of the Act can be reviewed. It is clear, however, from the steady and rapid rise * that has taken place during recent years, not only in the number of cases reported, but also in the amount of compensation realized from fees levied in compounded cases, that Forest-officers are year by year making more extensive use of the powers given to them by the Forest Law; and to a certain degree this may reasonably be expected since the longer the law is in operation and the better the people are acquainted with its provisions, the more strictly it may be enforced. The total amount of compensation money realized during 1893–94 was however more than double the amount levied four years previously, and was considerably larger than the corresponding sum recorded for the preceding season of 15 months. As the Board points out, the Collector and District Magistrate of each district is responsible for seeing that the law is worked with due consideration for the interests of the people. The large increase in the percentage of cases compounded and in the amount of compensation levied is, nevertheless, a matter of serious import. The dangers attaching to the system of compounding offences were indicated by the Government of India in reviewing the report for 1892–93. His Excellency the Governor in Council now resolves to reiterate the principles which should govern the exercise of this power. Cases in which the evidence does not appear to be strong enough to ensure conviction should be withdrawn altogether, and the power of compounding should be utilized only when the offence has clearly been committed by the individual in question, but prosecution is deemed to be inadvisable owing to the existence of special circumstances, such as the petty nature of the offence itself, ignorance of the law on the part of the offender, or distance of the scene of the offence

| Year. | Number of new cases. | Amount of compensation realized. |
|---|---|---|
| | | Rs. |
| * 1890-91 .. .. .. | 5,577 | 15,759 |
| 1891-92 .. .. .. | 8,124 | 27,385 |
| 1892-93 (15 months) .. | 10,905 | 33,493 |
| 1893-94 .. .. .. | 10,007 | 37,595 |

from a Magistrate's Court. These principles were enunciated in the annual review for 1891–92, but the Government has reason to fear that they have not in all cases been carefully followed, and the attention of all officers concerned will again be drawn to the matter. It must further be borne in mind that delay in disposal is in itself very harassing to the parties concerned, and petty cases in which there has been long delay either in the institution of prosecutions or in the bringing of the offenders to trial should be withdrawn. The Government observes that in no instance was the power of compounding exercised by an officer below the rank of District Forest-officer, and desires that this practice should not be departed from in the future. It is noticeable that in the figures of 1893–94 a high percentage of acquittals does not in most districts follow a high percentage of cases compounded, so that the connection noted by the Government of India in the figures of 1892–93 is not repeated. The more serious cases are specially noticed in the Board's report; it is satisfactory that the outbreak of crime in the Cuddapah district remarked upon in last year's review does not appear to have been continued. The report called for from South Canara should on receipt be submitted for the information of Government. With reference to the Board's remarks in paragraph 35 on the subject of registers of forest offences, it is observed that the revised edition of the Forest Code provides the necessary forms (Nos. 41 and 41-A).

14. *Forest fires and fire-protection.*—The total area of which the protection was attempted during 1893–94 was almost the same as in the preceding year, and the percentage of success was 94 as against 95. The average cost per square mile was slightly more than Rs. 9; this rate cannot fairly be compared with that reported for the previous period, as the 15 months then under consideration covered two fire-seasons, but it is less than the corresponding figure for 1891–92 (Rs. 9·90), while the area attempted is larger. The report contains some interesting information on the causes to which the fires were attributed. The Board's remarks on the absence of fire-protection in the Sandur State are not understood and the Collector should be directed to submit a special report on the subject. The protection exercised during 1893–94 in other districts appears to have been generally satisfactory.

15. *Grazing.*—The revenue derived from grazing fees during the year under review is quite abnormal, being three-quarters of a lakh of rupees more than in any previous year. The figures for the last five years are given in the margin, that for 1892–93 representing the receipts for the twelve months ending with March 31, 1893. The increased receipts are doubtless the result of more efficient management, although in many districts the arrangements made for the control of grazing are reported to be still very imperfect; but the imperial policy recently enunciated aims more especially at the withdrawal, so far as may be practicable, of restrictions imposed on grazing and on the use of minor produce generally, and both the Board and the Conservators should devote their most careful attention to the principles laid down. The experiment in the constitution of separate and well-defined grazing areas, now being tried in the Kistna district, was sanctioned by Government with some hesitation, subject to the submission of an annual report on the progress made. The very rapid rise of grazing receipts in this district during the past year shows that the new system has already affected the revenue, and the Government looks to the Collector to see that the stricter control, now being exercised over the pasture lands, is necessary in the interests of the people. The Government is fully alive to the evils of the leasing system, which after a fair trial in the Kistna district was very properly abandoned, but the concurrent abuses of departmental working are noticed in the Resolution of the Government of India already referred to, and it remains to be seen whether the *parcelle* system can be permanently adopted. The Kistna and Nellore districts are peculiar, in that they contain on the plain country extensive areas of excellent pasture land, and the grazing is in great request with the cattle-owners of neighbouring districts; it is accordingly of much importance that these lands should be effectively protected, but it should be borne in mind that "grazing should not be looked upon primarily as a source of income," and the control of all pasture lands must be exercised with due regard to the satisfaction

| | Rs. |
|---|---|
| 1889–90 ... ... ... ... | 1,43,845 |
| 1890–91 ... ... ... ... | 1,50,015 |
| 1891–92 ... ... ... ... | 1,83,722 |
| 1892–93 ... ... ... ... | 1,75,589 |
| 1893–94 ... ... ... ... | 2,66,891 |

of local demands. The special attention of the Kistna district officers has already been called to the terms of the policy prescribed by the Madras Government in 1890,—a policy which in its main principles exactly coincides with that now enunciated by the Government of India,—and instructions have been issued to ensure the public being allowed the free use for grazing purposes of all Government lands not included within the boundaries of a reserved forest or of some area of which the eventual reservation is contemplated. The Government believes that in the Tinnevelly district grazing is being regulated on a system similar to that recently introduced into Kistna, and desires to receive a special report on the subject.

16. The variations in the figures for other districts are explained in the report. The very large increase of revenue under this head in North Arcot (Rs. 11,669 to Rs. 42,782) is said to be partly fictitious, as the fees levied in the previous year were in some cases credited in the returns of 1893–94. This explanation is not sufficient to account for so extraordinary an increase: in 1890–91 the grazing revenue of this district was shown as only Rs. 7,885, and in 1891–92 as Rs. 13,525. The question of discontinuing the practice of allowing free grazing to Toda buffaloes on the Nilgiris should be separately dealt with. The final decision upon the question of maintaining the distinction between agricultural and non-agricultural cattle has been held over pending receipt of certain information called for by Government, in regard to the allotment of free grazing to the former class of animals: the Board's report should be expedited. It may be noted that the revised edition of the Code prescribes an annual return to show the areas closed and open to grazing during the year; the form is copied from form 54 of the India Code, but the connected form 55 prescribed by the same Code, to show the fees levied for each class of animal and the details of free grazing allowed to each class, has not been adopted on the ground that it is not possible to furnish such detailed information with the present establishments.

17. *Reproduction.*—The details of the areas under cultural operations and the cost so incurred are given in abstract H. The headings of this statement were incorrectly entered in last year's report and the Government of India remarked that the average cost of plantations appeared to be much greater than in previous years. The Board has since explained that the figures in columns 5 and 7 of this return represent the cost, not only of planting up the new areas, but also of maintaining the existing plantations, and on this understanding the cost per acre up to 1892–93 comes to Rs. 58 approximately; a similar calculation of the charges including those incurred in 1893–94 shows an average rate of Rs. 59 per acre.* The Government has perused with interest the Conservators' notes on reproduction given in appendix G.

| | | ACS. |
|---|---|---|
| * Area of plantations up to 1892–93 | .. .. | 20,645 |
| ,, added during 1892–93 | .. .. .. | 229 |
| ,, ,, 1893–94 | .. .. .. | 425 |
| | A .. | 21,299 |
| | | RS. |
| Cost up to 1892–93 | .. .. .. .. | 11,67,788 |
| Cost incurred during 1892–93 | .. .. .. | 48,134 |
| ,, ,, 1893–94 | .. .. .. | 38,764 |
| | B .. | 12,54,686 |

Cost per acre up to 1893–94 = $\frac{B}{A}$ = 58·9 or almost 59.

18. *Communications and buildings.*—The total expenditure under this head was Rs. 79,254, the percentage of outlay on the gross revenue being 4·08 as compared with 5·1, the corresponding figure for 1892–93. The large decrease in the expenditure on buildings and the increased outlay upon roads and bridges are satisfactory features in the year's report. The amount spent upon building operations in the Southern Circle was less than half the sum so spent in the previous season, and the Government is glad to observe that endeavours are being made to reduce the cost of buildings generally. The promised scheme for the development of forest communications has not as yet been submitted, and the consideration of this important subject should be taken in hand without delay. It is observed that the matter of forest camps is also under discussion. The long list of completed buildings appended to last year's report has been rightly superseded by a list showing only the new buildings constructed during the year. The Board has now prescribed a form for recording the capital and revenue accounts of tramways, and this has been inserted as form 65 in the revised Code. The returns for 1893–94 call for no special remarks, but it does not appear that, taken as a whole, these operations have up to date met with much success. It is hoped that the Sriharikota tramway will justify its working during the current year.

19. *Yield and working.*—The following statement gives the particulars of the yield of the forests during the last three years :—

| — | Timber including sandalwood in cubic feet. | Fuel in cubic feet. | Bamboos in number. | Minor produce (gross value in rupees). |
|---|---|---|---|---|
| | C. FT. | C. FT. | NO. | RS. |
| 1891–92 .. .. .. .. .. .. .. | 3,086,937 | 13,987,173 | 31,150,765 | 6,40,842 |
| 1892–93 (fifteen months) .. .. .. .. .. | 2,966,556 | 12,138,565 | 20,779,393 | 8,03,255 |
| 1893–94 .. .. .. .. .. .. .. | 3,072,496 | 12,184,996 | 25,304,261 | 7,91,056 |
| Net increase or decrease in 1893–94 as compared with 1892–93. | + 105,940 | + 46,431 | + 4,524,868 | — 12,199 |
| Percentage of increase or decrease .. .. .. .. | + 3·6 | + ·3 | + 21·7 | — 1·5 |

The yield for the twelve months under review showed a perceptible increase over that for the fifteen months of 1892–93 under all heads except "minor produce," and making due allowance for the increase of about 5 per cent. in the area dealt with and for the decrease in the period reviewed, the results obtained in the year 1893–94 must be considered to be satisfactory. The comparison of the average approximate yield per square mile given in paragraph 49 of the Board's report is made between the figures of the twelve months of 1893–94 and those for fifteen months of 1892–93, but if the average for the twelve months of 1892–93 is taken, the yield per square mile during the latter period comes to be about 703 cubic feet of timber and fuel, 967 bamboos and Rs. 38 worth of minor produce as against 847 cubic feet, 1,405 bamboos and Rs. 44 respectively in 1893–94. The variations in the figures have on the whole been satisfactorily accounted for by the Board in paragraphs 50 to 55 of the report. As compared with the figures for 1891–92, however, the figures for 1893–94 showed a falling off under "timber," "fuel" and "bamboos," though under "minor produce" there was an increase of a little over Rs. 1,50,000. The increase in the revenue during 1893–94 over that of 1891–92 was about Rs. 2,50,000 or, excluding the amount credited to minor produce, Rs. 1,00,000. It is stated that a payment of Rs. 80,000 made in 1893–94 for railway sleepers in Ganjám was to "a great extent in the nature of an advance" and this amount has evidently helped to swell the difference between the receipts of the two years. It is also reported that in the departmental sales of forest produce the rates obtained for timber during the year under review in several districts were higher than in the previous year, and this fact must also be taken into consideration.

20. In paragraph 51, the Board compares the quantity and cost of the produce collected and disposed of by departmental agency in 1893–94 with the corresponding figures for 1892–93 and the variations are partly explained. The assertion at the close of the paragraph to the effect that "the cost of collection under all the heads is less except under timber, which is slightly more than in 1892–93," is incorrect, as the rate for sandalwood is shown as being Rs. 1–2–7 as against Rs. 1–0–8 in the previous season. In paragraph 52, the Board deals with the question of the head to which removals by contractors should be credited. The Government agrees with the Board in the views expressed upon this subject.

21. The cost of departmental and private working and the net profit under each system are compared in the statement appended to paragraph 53 of the report. The departmental working of timber and sandalwood as usual show a profit and that of minor produce for the first time appears on the same side, while in fuel there was a net loss of 2 pies per cubic foot as against 1 pie in the two previous years. In reviewing the administration report for 1892–93, the Government remarked that the figures relating to minor produce seemed to indicate the inadvisability of working such produce by Government agency, and the Board was called upon to submit a special report on the subject. This report has not as yet been submitted, and the Board should now attend to the matter, but it is observed that the profit evidenced by the last year's working somewhat alters the question. The Government is not aware whether there are grounds for supposing that the returns of future years will show a similar result. The profit in the departmental working of timber was double,

of bamboos treble, and of sandalwood about half of what it was in the previous year, and the Board should have furnished an explanation of these variations.

22. *Financial results.*—The subjoined statement gives the financial results of the fifteen months of 1892–93, of the twelve months ending 30th June 1893 and of the year under review :—

| | Northern Circle. | | | Central Circle. | | |
|---|---|---|---|---|---|---|
| | 1892–93 (15 months). | 1st July 1892 to 30th June 1893. | 1893–94. | 1892–93 (15 months). | 1st July 1892 to 30th June 1893. | 1893–94. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Receipts | 4,54,069 | 3,79,720 | 6,04,314 | 8,63,599 | 7,39,254 | 7,76,451 |
| Charges | 3,66,236 | 2,98,208 | 3,26,719 | 5,95,342 | 4,78,897 | 5,35,276 |
| Surplus or deficit | 87,333 | 81,512 | 2,77,595 | 2,68,257 | 2,60,357 | 2,41,175 |
| Increase or decrease during 1893–94 as compared with the preceding twelve months | | + 1,96,083 | | | — 19,182 | |

| | Southern Circle. | | | Total. | | |
|---|---|---|---|---|---|---|
| | 1892–93 (15 months). | 1st July 1892 to 30th June 1893. | 1893–94. | 1892–93 (15 months). | 1st July 1892 to 30th June 1893. | 1893–94. |
| | 8 | 9 | 10 | 11 | 12 | 13. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Receipts | 6,48,150 | 5,29,706 | 5,62,950 | 19,65,818 | 16,48,680 | 19,43,715 |
| Charges | 6,77,350 | 5,64,471 | 5,06,416 | 16,38,928 | 13,41,576 | 13,68,411 |
| Surplus or deficit | — 29,200 | — 34,765 | 56,534 | 3,26,890 | 3,07,104 | 5,75,304 |
| Increase or decrease during 1893–94 as compared with the preceding twelve months | | + 91,299 | | | + 2,68,200 | |

The revenue derived during the past year was the highest recorded for any year of twelve months since the inauguration of the Forest Department, and the surplus of receipts over expenditure was also the highest on record. The following statement compares the financial results of the past five years :—

| | Receipts. | Charges. | Surplus. |
|---|---|---|---|
| | Rs. | Rs. | Rs. |
| 1889–90 | 15,57,627 | 11,65,358 | 3,92,269 |
| 1890–91 | 17,95,408 | 12,53,284 | 5,42,124 |
| 1891–92 | 16,94,215 | 12,66,154 | 4,28,061 |
| 1892–93 (fifteen months) | 19,65,818 | 16,38,928 | 3,26,890 |
| Twelve months ending 30th June 1893 | 16,48,680 | 13,41,576 | 3,07,104 |
| 1893–94 | 19,43,715 | 13,68,411 | 5,75,304 |

The variations in the figures for the year under review, as compared with those for the previous twelve months, are concisely set forth in paragraph 56 of the Board's report and call for no special remarks. It may, however, be noted that so far as receipts are concerned, the year 1893–94 appears to have been somewhat abnormal.

23. *Conclusion.*—The results achieved during the year 1893–94 may be regarded as very satisfactory. The revision of the Forest Code and of the rules under section 26 of the Forest Act will tend to simplify the despatch of business generally; the Senior Conservator, Mr. Popert, rendered valuable assistance in the disposal of the Code revision which has long been pending, and the thanks of Government have been accorded to

him. The district inspection of all the three Conservators appears to have been good.' The special grazing scheme worked out by Mr. A. W. Lushington for the Kistna district has already been noticed in paragraph 15 *supra*. His Excellency the Governor in Council desires that future reports should embody the opinions of Conservators on the work of District Forest-officers; the general remarks contained in paragraph 63 of the present report do not appear to be of much value. The Government notes the Board's remark in paragraph 30 of the report to the effect that owing to the delay in sanctioning the scheme for the re-organization of the subordinate staff, promotion in the lower ranks of the service is very slow and that "there is a feeling of hopelessness which is not conducive to efficiency." The delay is much to be regretted, for the subordinate establishments are admittedly inadequate, and although the general financial pressure renders the increase of any expenditure a matter of serious consideration, His Excellency the Governor in Council believes that the proposals submitted to the Government of India in March 1894 represented the smallest possible establishment compatible with efficient management.

(True Extract.)

(Signed) G. S. FORBES,
Ag. Secretary to Government.

# ANNUAL

# ADMINISTRATION REPORT

OF

# THE FOREST DEPARTMENT

# MADRAS PRESIDENCY,

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1895.

(1894-95.)

MADRAS:
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1896.

# TABLE OF CONTENTS.


## Chapter I.—Introductory.

| | PARA. | PAGE |
|---|---|---|
| Rules under the Forest Act .. | 1 | 1 |
| Other minor regulations .. .. | 2 | 1 |
| Forest Code .. .. .. | 3 | 1 |
| Principal Administrative changes .. | 4 | 1 |
| Tours of Forest Member .. .. | 5 | 1 & 2 |
| Conservators' Inspections .. | 6 | 2 |
| Touring of District Forest-officers .. | 7 | 2 |
| Inspection of Range offices by District Forest-officers .. | 8 | 2 |
| Audit of the accounts of the District Forest office .. | 9 | 2 |
| Reorganization of the Subordinate Staff .. .. .. | 10 | 2 & 3 |

## Chapter II.—Areas and Boundaries.

| | PARA. | PAGE |
|---|---|---|
| Areas— | | |
| Changes during the 12 months .. | 11 | 3 |
| District areas and Forest Reserves. | 12 | 3–5 |
| Reserved Forests— | | |
| Area constituted during the 12 months .. .. .. | 13 | 5 |
| Settlement— | | |
| Progress in Settlement .. | 14 & 15 | 5–7 |
| Selections for further reservation. | 16 & 17 | 7 & 8 |
| Outturn of work by Special Forest Settlement-officers .. | 18 | 8 & 9 |
| Work of other Settlement-officers (Divisional-officers) .. | 19 | 9 |
| Reserved lands not brought under Settlement .. .. | 20 | 9 & 10 |
| Demarcation— | | |
| Lengths demarcated .. | 21 | 10 & 11 |
| Preliminary demarcation .. | 22 | 12 |
| Permanent do. .. | 23 & 24 | 12 & 13 |

## Chapter III.—Surveys and Working Plans.

| | | | | | |
|---|---|---|---|---|---|
| Surveys .. .. .. | 25–27 | 13 & 14 | Working Plans .. .. | 28 | 14–17 |

## Chapter IV.—Protection and Improvement.

| | | | | | |
|---|---|---|---|---|---|
| Establishment .. .. .. | 29 | 17 | Grass-cutting and hay-making .. | 37 | 25 & 26 |
| General Protection and Breaches of Forest Laws .. .. | 30–33 | 17–21 | Natural Reproduction .. .. | 38 | 26 |
| Forest Fires and Fire Protection .. | 34 & 35 | 22 & 23 | Artificial do. .. .. | 39–41 | 26–29 |
| Grazing .. .. .. | 36 | 23–25 | Communications and Buildings .. | 42 | 29 & 30 |
| | | | Tramways .. .. .. | 43 | 30 |

## Chapter V.—Yield and Working.

| | | | | | |
|---|---|---|---|---|---|
| Yield— | | | Removals by Purchasers .. | 47 | 33 & 34 |
| General .. .. .. | 44 | 30 | Comparative cost of departmental and private working .. | 48 & 49 | 35 |
| Departmental Operations— | | | | | |
| Trees felled and converted .. | 45 | 30 & 31 | Confiscated Produce .. .. | 50 | 35 & 36 |
| Produce collected and disposed of. | 46 | 31–33 | Free Grants of Forest Produce .. | 51 | 36 & 37 |

## Chapter VI.—Financial Results.

| | | |
|---|---|---|
| Revenue and Expenditure .. .. .. .. .. .. .. | 52 | 37 & 38 |

## Chapter VII.—General Remarks.

| | | | | | |
|---|---|---|---|---|---|
| Forest School .. .. .. | 53 | 38 | Service Books .. .. | 57 | 39 |
| Conduct of Establishment .. | 54 | 38 & 39 | Inventory of valuable stock .. | 58 | ,, |
| Health of do. .. | 55 | 39 | Rain-gauges .. .. .. | 59 | ,, |
| Elephants .. .. .. | 56 | ,, | Work done by the Superior staff. | 60 | 39 & 40 |

# APPENDICES.


| | | PAGES |
|---|---|---|
| Appendix | A—Forest Settlement .. .. .. .. .. .. .. | i to iii |
| Do. | B—Causes of delay in the submission of final notifications of Forest reserves .. .. .. .. .. .. .. .. .. | iv |
| Do. | C—Reserved lands not under settlement in square miles .. .. | v |
| Do. | D—Abstract of district reports in regard to the maintenance of maps in accordance with the provisions of section 81 of the Forest Code .. | vi & vii |
| Do. | E—Statement showing area of reserved forests for which final maps have been prepared .. .. .. .. .. .. .. .. | vii |
| Do. | F—Statement showing the area of Forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile .. .. .. .. .. .. .. .. | viii |
| Do. | G—Natural and Artificial reproduction—Cultural operations—Improvement fellings—Experiments and Exotics .. .. .. .. | ix to xv |
| Do. | H—Roads—Buildings .. .. .. .. .. .. .. | xv & xvi |
| Do. | I—Statement showing the results of transport of wood by tramway compared with the transport by carts in Nellore, Cuddapah and South Coimbatore .. .. .. .. .. .. .. | xvii & xviii |

(*Annual Forms.*)

| | |
|---|---|
| Area of Reserved Forests (No. 59 A) .. .. .. .. .. .. .. | xix |
| Area of Reserved Lands (No. 59 B) .. .. .. .. .. .. .. | xx |
| Area of Plantations (No. 60) .. .. .. .. .. .. .. .. | xxi & xxii |
| List of Topes and Experimental Gardens (No. 61) .. .. .. .. .. | xxiii |
| Area of Forest Tracts protected from fire (No. 62) .. .. .. .. .. | xxiv |
| Prosecutions for breaches of Forest Rules (No. 63) .. .. .. .. .. | xxv & xxvi |
| Summary of Revenue and Expenditure (No. 64) .. .. .. .. .. | xxvii to xxxvi |
| Outstandings and Liabilities on account of Contractors and Disbursers (No. 65) .. | xxxvii to xxxix |
| Revenue received and Outstandings on account of Revenue (No. 66) .. .. | xl to xlii |
| Trees felled by Government Agency (No. 68) .. .. .. .. .. .. | xliii |
| Timber and other produce cut and collected by Government Agency (No. 69) .. | xliv & xlv |
| Receipts and Issues of Timber and other produce in Sale Depôts (No. 70) .. | xlvi & xlvii |
| Sales of Timber and other produce cut and collected by Government Agency (No. 71) .. .. .. .. .. .. .. .. .. .. .. .. | xlviii to l |
| Timber and other produce cut and collected and removed by consumers (No. 72 A). | li |
| Timber and other produce confiscated and sold (No. 72 B) .. .. .. .. | lii |
| Abstract showing the value of Timber and other produce at Sale Depôts (No. 73 A). | liii & liv |
| Abstract showing the value of Live-stock, Stores, Tools and Plant (No. 73 B) .. | lv to lviii |
| Statement of Live-stock (Elephants and Cattle) (No. 74) .. .. .. .. | lix to lx |

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

FOR THE TWELVE MONTHS ENDING WITH 30TH JUNE 1895.

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## CHAPTER I.

### INTRODUCTORY.

*Rules under the Forest Act.*—Revised rules under section 26, and general rules under sections 21 (*h*) and 26 (*f*) for all districts except Nilgiris were passed during the year. A set of general rules under sections 35 and 36 for regulating transit of timber awaits final sanction.

2. *Other minor regulations.*—Improved rules were issued regarding the capture of elephants on the pit-fall system. The rules for regulation of quarrying and mining for minerals were amended. Draft rules to facilitate the remittance of forest revenue by means of postal money orders were approved and published.

3. *Forest Code.*—The revised edition of the Forest Code was approved and, with the exception of the account forms, introduced from 1st January 1895. The introduction of the account forms was deferred until the commencement of the current forest year (*i.e.*, 1st July 1895).

4. *Principal administrative changes.*—During the year under report the Government of India issued a resolution enunciating the principles which should be observed in the administration of all State forests in British India. The main object aimed at was the relaxation of restrictions imposed upon grazing and upon the use of minor produce generally. These principles had been anticipated in this Presidency and the necessary provision for giving effect to them had also been made in the revised rules under section 26 of the Forest Act. Doubts having been entertained regarding the applicability to this Presidency of certain suggestions of the Government of India, particularly with reference to the management of minor forests and grazing grounds by the resident cultivators independently of the Forest Department, a reference was made to the Government of India. Finally it was decided to adhere to the policy laid down in 1890 and to retain under the department all classes of forest reserves, the minimum area of each reserve being ordinarily fixed at one square mile.

5. *Tours of Forest Member.*—The subjoined table shows the tours made by the Forest Member of the Board during the year under report:—

134083

| Name of Forest Member. | Period of charge. | Duration of tours. | District visited. | Purpose of journey. |
|---|---|---|---|---|
| The Hon'ble Mr. J. Sturrock. | 1st July 1894 to 8th August 1894. | 23rd to 29th July 1894. | Kurnool .. .. | Inspection of the Nallamalai reserved forest and conference with Collector and District Forest-officer on forest matters. |
| Mr. H. M. Winterbotham. | 9th August 1894 to 8th November 1894 | .... | .... | .... |
| The Hon'ble Mr. J. Sturrock. | 9th November 1894 to 30th June 1895. | 16th December 1894 to 1st January 1895. | Kurnool .. .. | Enquiry into matters of Forest Administration. |
| | | 26th to 28th February 1895. | Coimbatore .. | Inspection of office of Forest Settlement-officer. |
| | | 15th to 20th March 1895. | North Arcot .. | Forest inspection and conference with District Forest-officer. |
| | | 15th to 20th April 1895. | Trichinopoly .. | |
| | | 8th to 18th April 1895. | Cuddapah .. | |
| | | 17th to 30th June 1895. | Nilgiris and Coimbatore. | |

6. *Conservators' Inspections.*—The following abstract shows the time spent in camp by each Conservator and the names of districts visited or inspected by them. Their touring was satisfactory :—

| Circle. | Name of Conservator. | Number of days in charge. | Number of days spent in camp. | Districts visited. | Districts for which inspection notes were submitted to the Board. | District Forest-offices inspected. |
|---|---|---|---|---|---|---|
| Northern | Mr. A. W. Peet .. | 150 | 85 | All the districts. | Ganjám and Bellary. | .... |
| | „ E. D. M. Hooper. | 175 | 166 | | | |
| | „ E. P. Popert .. | 40 | .. | | | |
| Central .. | „ E. P. Popert .. | 274 | 158 | Do. | Salem, Nellore, Cuddapah and North Arcot. | All. |
| | „ A. W. Peet .. | 91 | 21 | | | |
| Southern .. | Mr. J. W. Cherry .. | 299 | 191 | Do. | All the districts except Nilgiris. | All the District Forest offices except Nilgiris. |
| | „ E. D. M. Hooper .. | 66 | 54 | | | |

In addition to the inspection of the districts in the Central Circle, Mr. Popert visited, under instructions from the Board, the Coimbatore and Nilgiri districts in the Southern Circle to report upon the teak forests.

7. *Touring of District Forest-officers.*—With few exceptions all District Forest-officers spent half the year in camp. Satisfactory explanations have been afforded for short touring.

8. *Inspection of Range offices by District Forest-officers.*—The rule requiring District Forest-officers to inspect Range offices at least once in every half year was strictly observed in the following districts only :—*Vizagapatam, Kistna, Chingleput, South Arcot, Trichinopoly, Salem, Tinnevelly, North and South Coimbatore, Nilgiris, South Malabar and South Canara.* Instructions have been issued directing strict attention to the rule in future.

9. *Audit of the accounts of the District Forest office.*—The Inspecting staff attached to the Accountant-General's office audited the accounts of all districts except Vizagapatam, Anantapur, Malabar and South Canara.

10. *Reorganization of the Subordinate staff.*—The proposals for the reorganization of the subordinate executive staff are still under consideration. At the close of the year it was not known how far the abandonment of reserves under one square mile would affect the proposals. It is certain no large reduction will be possible, as the scale was prepared before the Forest Department was ordered to undertake the management and control of grazing grounds and village forests (now included in reserves). The interests both of the department and of the general public demand a speedy settlement of this long-pending question which is now unavoidably postponed, until the revised scheme for further reservation in all the districts has been duly considered. The sanction for the reorganization of the District Forest office establishments was received at the close of the year.

The question of clerks for Range offices has yet to be disposed of. The advisability of clerical assistance is indisputable.

Of the twenty-two District Forest charges, sixteen were held by Deputy Conservators, two by Assistant Conservators, and the rest by extra Assistant Conservators on the last day of the year.

## CHAPTER II.

### Areas and Boundaries.

11. The areas of each class of forest at the beginning and at the end of the year under report as well as the changes during the year are shown in the subjoined statement :—

Abstract A.—Classes and areas of forests.

| Classes of forests. | Area on 1st July 1894. | Added during the year 1894-95. | Excluded during the year 1894-95. | Net increase or decrease. | Area on 30th June 1895. |
|---|---|---|---|---|---|
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Reserved forests .. .. .. .. .. | 3,608 | (*a*) 230 | (*b*) 3 | + 227 | 3,835 |
| Do. lands .. .. .. .. .. .. | 2,385 | (*b*) 2<br>(*c*) 541<br>(*h*) 2 | (*b*) 2<br>(*d*) 230<br>(*e*) 20<br>(*f*) 79<br>(*g*) 1<br>(*h*) 2 | + 211 | 2,596 |
| Total .. | 5,993 | 775 | 337 | + 438 | 6,431 |
| *Central Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 4,296 | (*a*) 295<br>(*b*) 15 | (*b*) 11<br>(*f*) 1 | + 298 | 4,594 |
| Do. lands .. .. .. .. .. .. | 2,179 | (*b*) 15<br>(*c*) 359 | (*b*) 30<br>(*d*) 295<br>(*e*) 30<br>(*f*) 13<br>(*g*) 1 | + 5 | 2,184 |
| Total .. | 6,475 | 684 | 381 | + 303 | 6,778 |
| *Southern Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 2,882 | (*a*) 155 | .. | + 155 | 3,037 |
| Do. lands .. .. .. .. .. .. | 2,660 | (*b*) 10<br>(*c*) 67 | (*b*) 15<br>(*d*) 155<br>(*f*) 23 | — 116 | 2,544 |
| Total .. | 5,542 | 232 | 193 | + 39 | 5,581 |
| *Total.* | | | | | |
| Reserved forests .. .. .. .. .. | 10,786 | (*a*) 680<br>(*b*) 15 | (*b*) 14<br>(*f*) 1 | + 680 | 11,466 |
| Do. lands .. .. .. .. .. .. | 7,224 | (*b*) 27<br>(*c*) 967<br>(*h*) 2 | (*b*) 47<br>(*d*) 680<br>(*e*) 50<br>(*f*) 115<br>(*g*) 2<br>(*h*) 2 | + 100 | 7,324 |
| Grand Total .. | 18,010 | 1,691 | 911 | + 780 | 18,790 |

(*a*) Transferred from reserved lands. (*b*) By rectification of area. (*c*) Newly constituted reserved lands.
(*d*) Transferred to reserved forests. (*e*) Excluded at Settlement. (*f*) Unreserved or disafforested.
(*g*) By rounding off fractions. (*h*) Transferred from one district to another.

The increase of 780 square miles in the total area reserved under the Forest Act is due to the fact that large areas were notified as reserved lands during the year chiefly in the districts of Vizagapatam, Kurnool and Anantapur in the Northern Circle and Nellore, Cuddapah and North Arcot in the Central Circle. The addition to the area of reserved forests during the year was chiefly in Bellary and Anantapur in the Northern Circle; Nellore, South Arcot and Salem in the Central Circle and Nilgiris in the Southern Circle.

12. The following statement exhibits the area of each district and of the reserved forests and reserved lands therein :—

## Abstract B.—District areas and forest reserves.

| District. | Total district area excluding feudatory and tributary states. | Area excluding zemindari and whole inam villages. | Occupied area. | Particulars of remaining area (column 3—column 4). | | | Reserved forests and reserved lands. | | | Percentage of column 10 to column 3. | Percentage of column 10 to column 7. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unoccupied, culturable, uncultivable and forest areas. | Area for which returns are not available. | Total of columns 5 and 6. | Reserved forests under Act V of 1882. | Reserved lands. | Total of reserves, columns 8 and 9. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | | |
| *Northern Circle.* | | | | | | | | | | | |
| Ganjám | 8,369 | 4,539 | 586 | 1,258 | 2,695 | 3,953 | 136 | 440 | 576 | 12·6 | 14·5 |
| Vizagapatam | 17,242 | 1,454 | 244 | 227 | 983 | 1,210 | 58 | 374 | 432 | 29·7 | 35·7 |
| Gódávari | 7,857 | 4,394 | 1,419 | 654 | 2,321 | 2,975 | 521 | 481 | 1,002 | 22·8 | 33·6 |
| Kistna | 8,397 | 6,059 | 3,085 | 1,950 | 1,024 | 2,974 | 643 | 469 | 1,112 | 18·3 | 37·3 |
| Kurnool | 7,514 | 7,310 | 2,038 | 2,284 | 2,988 | 5,272 | 1,737 | 495 | 2,232 | 30·5 | 42·3 |
| Bellary | 5,900 | 5,687 | 2,658 | 2,073 | 956 | 3,029 | 360 | 204 | 564 | 9·9 | 18·6 |
| Anantapur | 5,274 | 5,064 | 1,880 | 2,317 | 867 | 3,184 | 380 | 133 | 513 | 10·1 | 16·1 |
| Total .. | 60,553 | 34,507 | 11,910 | 10,763 | 11,834 | 22,597 | 3,835 | 2,596 | 6,431 | 18·6 | 28·4 |
| *Central Circle.* | | | | | | | | | | | |
| Cuddapah | 8,723 | 8,290 | 2,068 | 5,447 | 775 | 6,222 | 1,250 | 1,018 | 2,268 | 27·3 | 36·4 |
| Nellore | 8,765 | 4,534 | 1,678 | 2,271 | 585 | 2,856 | 417 | 235 | 652 | 14·3 | 22·8 |
| Chingleput | 2,842 | 2,143 | 1,003 | 1,030 | 110 | 1,140 | 197 | 42 | 239 | 11·1 | 20·9 |
| North Arcot | 7,615 | 4,087 | 1,339 | 2,563 | 185 | 2,748 | 966 | 170 | 1,136 | 27·8 | 41·3 |
| South Arcot | 5,216 | 5,090 | 2,415 | 2,469 | 206 | 2,675 | 464 | 402 | 866 | 17·0 | 32·3 |
| Salem | 7,528 | 5,477 | 2,070 | 2,886 | 521 | 3,407 | 1,089 | 258 | 1,347 | 24·5 | 39·5 |
| Trichinopoly | 3,631 | 2,818 | 1,674 | 961 | 183 | 1,144 | 192 | 45 | 237 | 8·4 | 20·7 |
| Tanjore | 3,709 | 3,136 | 1,763 | 575 | 798 | 1,373 | 19 | 14 | 33 | 1·0 | 2·4 |
| Total .. | 48,029 | 35,575 | 14,010 | 18,202 | 3,363 | 21,565 | 4,594 | 2,184 | 6,778 | 19·0 | 31·4 |
| *Southern Circle.* | | | | | | | | | | | |
| South Canara | 3,902 | 3,902 | 668 | 3,215 | 19 | 3,234 | 114 | 1,026 | 1,140 | 29·2 | 35·2 |
| Malabar | 5,587 | 5,582 | 1,548 | 4,017 | 17 | 4,034 | 190 | 415 | 605 | 10·8 | 14·9 |
| Nilgiris | 957 | 957 | 325 | 632 | .. | 632 | 355 | 96 | 451 | 47·1 | 71·3 |
| Coimbatore | 7,860 | 7,614 | 3,778 | 2,283 | 1,553 | 3,836 | 1,425 | 879 | 2,304 | 30·2 | 60·0 |
| Madura | 8,812 | 3,348 | 1,593 | 1,236 | 519 | 1,755 | 542 | 109 | 651 | 19·4 | 37·0 |
| Tinnevelly | 5,334 | 3,619 | 2,288 | 674 | 657 | 1,331 | 411 | 19 | 430 | 11·8 | 32·3 |
| Total .. | 32,452 | 25,022 | 10,200 | 12,057 | 2,765 | 14,822 | 3,037 | 2,544 | 5,581 | 22·3 | 37·6 |
| Grand Total .. | 141,034 | 95,104 | 36,120 | 41,022 | 17,962 | 58,984 | 11,466 | 7,324 | 18,790 | 19·7 | 31·8 |

*Note.*—The figures in columns 2 to 7 were taken from the annual returns of the Settlement Department (Board of Revenue) for 1893–94.

The figures in columns 2 to 7 of the foregoing statement have been revised with reference to the statistical returns of the Settlement Department of the Board for 1893–94. There has been an increase of a little over 4 per cent. in the area reserved.

13. The subjoined statement shows the area finally constituted reserved forests in each district:—

ABSTRACT C.—Reserved Forests in square miles.

| Districts. | Prior to 1893–94. | During 1893–94. | During 1894–95. | Total. |
|---|---|---|---|---|
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Ganjám .. .. .. .. .. .. | 114 | 19 | 3 | 136 |
| Vizagapatam .. .. .. .. .. .. | 24 | 5 | 29 | 58 |
| Gódávari .. .. .. .. .. .. | 442 | 56 | 23 | 521 |
| Kistna .. .. .. .. .. .. | 633 | (a)—6 | 19 (b)—3 | 643 |
| Kurnool .. .. .. .. .. .. | 1,726 | (b) 8 | 3 | 1,737 |
| Bellary .. .. .. .. .. .. | 214 | 71 | 75 | 360 |
| Anantapur .. .. .. .. .. .. | 101 | 201 | 78 | 380 |
| Total .. | 3,254 | 354 | 227 | 3,835 |
| *Central Circle.* | | | | |
| Cuddapah .. .. .. .. .. .. | 965 | 239 | 37 (b)+9 | 1,250 |
| Nellore .. .. .. .. .. .. | 341 | 2 | 74 | 417 |
| Chingleput .. .. .. .. .. .. | 155 | 14 | 28 | 197 |
| North Arcot .. .. .. .. .. .. | 688 | 249 | 30 (c)—1 | 966 |
| South Arcot .. .. .. .. .. .. | 385 | 22 | 57 | 464 |
| Salem .. .. .. .. .. .. | 967 | 60 | 67 (d)—5 | 1,089 |
| Trichinopoly .. .. .. .. .. .. | 190 | .. | 2 | 192 |
| Tanjore .. .. .. .. .. .. | 16 | 3 | .. | 19 |
| Total .. | 3,707 | 589 | 298 | 4,594 |
| *Southern Circle.* | | | | |
| South Canara .. .. .. .. .. | 100 | 6 | 8 | 114 |
| North Malabar .. .. .. .. .. | 151 | .. | .. | 151 |
| South Malabar .. .. .. .. .. | 39 | .. | .. | 39 |
| Nilgiris .. .. .. .. .. .. | 233 | 15 | 107 | 355 |
| North Coimbatore .. .. .. .. .. | 497 | 341 | 21 | 859 |
| South Coimbatore .. .. .. .. .. | 566 | .. | .. | 566 |
| Madura .. .. .. .. .. .. | 479 | 45 | 18 | 542 |
| Tinnevelly .. .. .. .. .. | 410 | .. | (e)+1 | 411 |
| Total .. | 2,475 | 407 | 155 | 3,037 |
| Grand Total .. | 9,436 | 1,350 | 680 | 11,466 |

(a) Three square miles were added, but nine square miles had to be deducted in consequence of rectification of area.
(b) By rectification of area. (c) Disforested.
(d) Six square miles were added, but eleven square miles had to be deducted in consequence of rectification of area
(e) By rounding off fractions.

In Cuddapah six blocks, with an area of 237 square miles, were actually notified under section 16 of the Act during the period under report, but with effect from dates falling within the current year. In North Arcot the outturn would have been larger had completion of settlement not been delayed by appeals from the Forest Settlement-officer's decisions. In North Coimbatore the final notifications for certain large blocks, which were under revision, were not ready for publication within the year.

14. The progress of forest settlement is shown in the following statement:—

ABSTRACT D.

| Circle. | Area of reserved lands—*vide* Abstract A above. | | | | | Area brought under Chapter II of the Madras Forest Act. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | On 1st July 1894. | Added during 1894-95. | Total. | Excluded during the year mainly by reason of constitution as reserved forests. | Balance at the end of the year. | Area notified under section 4 and not constituted reserved forests on 1st July 1894. | Added during 1894-95. | Total. | Constituted reserved forests during 1894-95. | Balance notified under section 4 but not constituted reserved forests. |
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Northern .. | 2,385 | 545 | 2,930 | 334 | 2,596 | 1,907<br>(*a*) — 3 | 254 | 2,158 | 227 | 1,931 |
| Central .. | 2,179 | 374 | 2,553 | 369 | 2,184 | 1,893<br>(*a*) + 4<br>(*b*)—218 | 378 | 2,057 | 298 | 1,759 |
| Southern .. | 2,660 | 77 | 2,737 | 193 | 2,544 | 1,518<br>(*b*) +11 | 249 | 1,778 | 155 | 1,623 |
| Total .. | 7,224 | 996 | 8,220 | 896 | 7,324 | 5,112 | 881 | 5,993 | 680 | 5,313 |

(*a*) By rectification of area. (*b*) Shown or omitted wrongly in previous year's return.

15. The statement in Appendix A shows districtwar the total area brought under settlement up to the end of the year, the area constituted reserved forests and the particulars of the balance under settlement on the 30th June 1895.

At the beginning of the year under report 758 blocks covering an area of 5,318 square miles which were previously notified as proposed reserves under section 4 remained to be finally constituted reserved forest. During the year 203 blocks with an area of 675 square miles were notified under section 4.

The totals for the Presidency, as compared with those of the previous year, are as follows :—

| — | 1893-94. | | 1894-95. | |
|---|---|---|---|---|
| | Number of blocks. | Area in square miles. | Number of blocks. | Area in square miles. |
| (*a*) Areas notified as proposed reserves under section 4 and remaining to be constituted reserved forest at the beginning of the year. | 675 | 6,082 | 758 | 5,318 |
| (*b*) Notified under section 4 during the year .. .. .. | 280 | 586 | 203 | 675 |
| (*c*) Total of (*a*) and (*b*) .. .. .. .. .. .. .. | 955 | 6,668 | 961 | 5,993 |
| (*d*) Deduct area finally notified as reserved forest under section 16 during the year. | 197 | 1,350 | 225 | 680 |
| (*e*) Area which remained to be finally notified at the end of the year. | 758 | 5,318 | 736 | 5,313 |

The particulars of balance of area under settlement shown under item (*e*) above are as follows :—

| — | 1893-94. | | 1894-95. | |
|---|---|---|---|---|
| | Number of blocks. | Area in square miles. | Number of blocks. | Area in square miles. |
| (*a*) Notified under section 16 during the year but with effect from dates in the following year. | 44 | 128 | 38 | 361 |
| (*b*) With Board or Government awaiting publication of notification under section 16. | 69 | 314 | 145 | 1,009 |
| (*c*) Returned by Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer. | 74 | 1,878 | 51 | 698 |
| (*d*) Total settled and reported on .. .. .. .. .. | 187 | 2,320 | 234 | 2,068 |
| (*e*) Settled but not reported on .. .. .. .. .. | 254 | 1,608 | 184 | 1,130 |
| (*f*) Settlement proceeding .. .. .. .. .. .. | 317 | 1,390 | 318 | 2,115 |

Of the 184 blocks comprising 1,130 square miles shown as settled but not reported on

31 were awaiting preparation of maps;
13 „ „ disposal of appeals;
11 „ „ expiration of time prescribed for appeals;
89 „ „ preparation or submission of final report by Forest Settlement-officers or Collectors;
13 „ „ replies to references made by Forest Settlement-officers.
27 „ due to other causes.

318 blocks comprising 2,115 square miles were pending with Forest Settlement-officers in various stages of settlement.

As regards the pendency of blocks, no progress was made in notifying the long pending blocks (*i.e.*, those notified prior to 1890–91) in *Ganjám*. This was mainly due to the postponement of settlement in the case of several reserves in the Berhampore taluk, which include lands commanded by the Rushikulya canal and to the want of a Special Forest Settlement-officer for the district. In *North Malabar* the three old blocks pending have been settled. The submission of final reports is delayed in the case of Peria and Kanoth forests pending negotiations for the exchange or purchase of certain hills. In the case of Padri a question regarding its boundary has still to be determined. In *South Malabar* the seventeen old blocks constitute what are known as the Amarampalem, Nilambúr and Attipadi valley forests. The submission of final reports is delayed pending disposal of appeals. In the other districts the progress made in this directiou is more or less satisfactory. In *Gódávari* the old blocks are pending on account of either demarcation of portions of blocks excluded at settlement or of claims in certain cases having still to be enquired into by the Forest Settlement-officer. In *Kistna* there are only three blocks of over four years' standing, two of which await disposal of appeals, while the other is pending disposal of claims by the Forest Settlement-officer. The only block in *Kurnool* was the North Dhone reserve, the final notification of which is delayed for want of a map. Of the seven old blocks in the *Bellary* district, final notifications for four blocks were received towards the close of the year, of which three have since been notified. Of the three others, two were returned to the Collector for revision and the report for the third has not yet been received. In *Anantapur* there is only one block pending since 1884–85. The draft notification for this block, received in the Board's office in February last, has since been gazetted. Of the two old blocks in *Nellore*, one awaits the District Court's decision in a compensation case and the settlement records of the other received in May last are pending scrutiny in the Board's office. There are eleven old blocks in *Salem* and draft final notifications therefore were received at the close of the year under report. Of the nine old blocks in *Cuddapah*, six have since been notified and three are pending with the Board.

Final notification for the one old block in *North Coimbatore* was received in the Board's office towards the close of the year. A statement showing the cause of the pendency of the blocks not yet constituted reserved forests is given in Appendix B.

As compared with the corresponding figures for 1894, the number of blocks pending on the 30th June 1895 shows a decrease while the area is nearly the same :—.

| Date. | Settled and reported on. | | Under settlement. | | Total. | |
|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. |
| | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| 30th June 1894 .. .. .. .. | 187 | 2,320 | 571 | 2,998 | 758 | 5,318 |
| 30th June 1895 .. .. .. .. | 234 | 2,068 | 502 | 3,245 | 736 | 5,313 |

16. *Selections for further reservation.*—The progress in selections for reservation is as follows :—

In Ganjám the areas have yet to be selected in the agency tract "Pondokhol" recently placed under the Forest Act. In Vizagapatam 130 square miles have been selected by the Collector in the Golgonda and Pálkonda taluks, but the necessity for this addition has yet to be explained. In Gódávari reservation is complete. In Kistna the question of notifying extensions to existing reserves of less than one square mile and of abandoning portions of other reserves which include lands affected by certain irrigation projects is under consideration and, until this is decided, the exact area to be reserved cannot be determined. In *Kurnool* satisfactory progress was

made during the year and only about 35 blocks still remain to be selected. In *Bellary* selection is complete in all the taluks except Hospet and Kudlighi taluks; in the former the result of a suit regarding the ownership of some hills and in the latter the Conservator's advice regarding the advisability of taking up further areas have to be awaited. In *Anantapur* the selections made by the subordinate officers are awaiting the inspection of the District Forest-officer. In the *Nilgiris*, the selections in Todanad and Kundanad are in progress; in Paranginad, the work will be taken up after the proposals for Todanad are approved. Arrangements are being made to take up the work in the South-East Wynaad; as regards the plateau, there is no urgency as under no circumstances is forest being alienated. Selection is practically completed in *Chingleput*, *North and South Arcot*, *Trichinopoly*, *North and South Coimbatore*, *Madura*, *Tinnevelly* and *South Malabar*. In *Cuddapah*, *Nellore*, *Salem* and *South Canara* the work is in different stages of progress.

17. With regard to the adequacy of reservation all that can be said is that schemes have been carefully prepared for most districts, though they are still under preparation in a few. The progress made in working out these schemes has been noted above, and when settlement has been completed, the area under reservation will comprise all that could be secured without unduly trenching on the areas available for village grazing and the extension of cultivation. Of course there are some districts in which the area selected for reservation is much less than it would have been if the work had been taken in hand at the beginning of the century, but as regards the Presidency as a whole it may confidently be said that the reserved area will be adequate for all requirements which ought to be met by State Agency though many of the forests will require years of rest and careful treatment before they can become financially profitable.

18. *Outturn of work by the Special Forest Settlement-officers.*—The work turned out by the Special Forest Settlement-officers is shown in the subjoined abstract:—

ABSTRACT E.—Outturn of work by Special Forest Settlement-officers during 1894–95.

| Name of Special Forest Settlement-officer. | Districts. | Issue of proclamation after notification under section 4. | | Settlement of claims. | | Report after settlement submitted. | | Final notification proclaimed. | | Cost. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Number of blocks. | Area. | Number of blocks. | Area. | Number of blocks. | Area. | Number of blocks. | Area. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. | RS. |
| Messrs. J. T. Lever and B. H. L. Lushington. | Gódávari .. .. | (a) | .. | 3 | 50 | 4 | 42 | .. | .. | 11,616 |
| | Kistna .. .. | (a) | .. | 19 | (b) | 20 | (b) | .. | .. | |
| | Kurnool .. .. | (a) | .. | 4 | 71 | 2 | 29 | .. | .. | |
| | Total .. | .. | .. | 26 | 121 | 26 | 71 | .. | .. | 11,616 |
| Mr. E. A. Smith .. .. | Anantapur .. .. | 10 | 36 | 7 | 22 | 7 | 22 | 5 | 16 | 11,794 |
| | Bellary .. .. | 5 | 16 | 33 | 97 | 33 | 97 | 27 | 73 | |
| | Nellore .. .. | 16 | 17 | 23 | 44 | 21 | 42 | .. | .. | |
| | Total .. | 31 | 69 | 63 | 163 | 61 | 161 | 32 | 89 | 11,794 |
| Mr. W. C. McMurray .. | Cuddapah .. .. | 17 | 197 | 6 | 40 | 19 | 532 | 9 | 259 | 11,360 |
| | North Arcot .. .. | 10 | 26 | 14 | 42 | 9 | 35 | 9 | 30 | |
| | South Arcot .. .. | 12 | 24 | 56 | 137 | 52 | 96 | 16 | 21 | |
| | Salem .. .. | 15 | 46 | 12 | 28 | 18 | 60 | 6 | 77 | |
| | Total .. | 54 | 293 | 88 | 247 | 98 | 723 | 40 | 387 | 11,360 |
| M.R.Ry. C. Raju Sastri .. | South Arcot .. .. | .. | .. | 4 | 121 | 8 | 158 | 5 | 63 | 10,407 |
| | Tanjore .. .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| | Trichinopoly .. | 1 | 3 | 8 | 4 | 5 | 1 | 1 | 1 | |
| | Madura .. .. | .. | .. | 9 | 11 | 12 | 7 | 3 | 6 | |
| | Tinnevelly .. .. | 24 | (b) | 2 | 2 | .. | .. | .. | .. | |
| | Coimbatore .. .. | 14 | 18 | 13 | 222 | 9 | 15 | 3 | 20 | |
| | Total .. | 39 | 21 | 36 | 360 | 34 | 181 | 12 | 90 | 10,407 |
| | Grand Total .. | 124 | 383 | 213 | 891 | 219 | 1,136 | 84 | 566 | 45,177 |
| | In 1893–94 .. .. | 213 | 437 | 163 | 662 | 132 | 938 | 112 | 742 | 44,291 |

(a) The Forest Settlement-officer states that information relating to blocks proclaimed is not available from records.
(b) Area reported not to be available.

The work compares favourably with that done in the preceding year. Both in regard to the number of blocks in which claims were settled and of those for which reports were submitted, Mr. McMurray has done more work than any other officer. In May 1895 Mr. Lever was replaced by Mr. R. H. L. Lushington, Assistant Superintendent of the Madras Survey Department, whose services were placed at the disposal of the Board in the Forest Department.

19. *Outturn of Forest Settlement work by the Revenue Divisional officers.*—The forest settlement work disposed of by the Revenue Divisional officers is shown below :—

ABSTRACT F.—Forest settlement work done by Revenue Divisional officers.

| District. | Name of officer. | Blocks pending with Forest Settlement officers at the beginning of 1894–95. | | Added during 1894–95. | | Total. | | Disposed of during 1894–95. | | Blocks pending with the Forest Settlement officers at the end of 1894–95. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. |
| Ganjám (*a*) .. | Principal Assistant Collector .. .. .. | 1 | 2 | .. | .. | 1 | 2 | .. | .. | 1 | 2 |
| | Senior Assistant Collector. | 25 | 40 | 1 | 1 | 26 | 41 | .. | .. | 26 | 41 |
| | General Deputy Collector. | 24 | 395 | 1 | 2 | 25 | 397 | .. | .. | 25 | 397 |
| | Total .. | 50 | 437 | 2 | 3 | 52 | 440 | .. | .. | 52 | 440 |
| Vizagapatam (*a*). | Principal Assistant Collector .. .. .. .. | 7 | 63 | .. | .. | 7 | 63 | 5 | 22 | 2 | 41 |
| | Head Assistant Collector .. | 12 | 209 | 3 | .. | 15 | 209 | 4 | 7 | 11 | 202 |
| | Total .. | 19 | 272 | 3 | .. | 22 | 272 | 9 | 29 | 13 | 243 |
| Bellary .. .. | Deputy Collector, Adóni .. | 5 | 23 | .. | .. | .. | .. | .. | .. | 5 | 23 |
| Chingleput | Mr. Pinto .. .. .. | 67 | 46 | 3 | 1 | 70 | 47 | 63 | 45 | (*b*) 7 | 2 |
| | Mr. Tillanayagam Pillai .. | .. | .. | 4 | 1 | 4 | 1 | .. | .. | 4 | 1 |
| | Total .. | 67 | 46 | 7 | 2 | 74 | 48 | 63 | 45 | 11 | 3 |
| Nilgiris .. .. | Head Assistant Collector .. | 3 | 2 | 33 | 1 | 36 | 3 | 3 | 2 | 33 | 1 |
| Coimbatore .. | Head Assistant Collector | 4 (*c*)—1 | 8 (*c*)—4 | .. | .. | 3 | 4 | .. | .. | 3 | 4 |
| Malabar .. .. | Sub-Collector .. .. | 2 | 42 | .. | .. | 2 | 42 | .. | .. | 2 | 42 |
| | Head Assistant Collector .. | 4 | .. | .. | .. | 4 | .. | .. | .. | 4 | .. |
| | Special Assistant Collector. | 15 | 171 | .. | .. | 15 | 171 | 3 | 52 | 12 | 119 |
| | Deputy Collector, Wynaad. | 7 | 160 | 8 | 13 | 15 | 173 | 2 | .. | 13 | 173 |
| | Total .. | 28 | 373 | 8 | 13 | 36 | 386 | 5 | 52 | 31 | 334 |
| South Canara (*a*). | Head Assistant Collector .. | 30 | 84 | 11 | 113 | 41 | 197 | 5 | 12 | 36 | 185 |
| | General Deputy do. .. | 5 | 23 | 1 | 101 | 6 | 124 | .. | .. | 6 | 124 |
| | Total .. | 35 | 107 | 12 | 214 | 47 | 321 | 5 | 12 | 42 | 309 |

(*a*) These are the correct figures as now revised.
(*b*) These were transferred to Mr. Tillanayagam Pillai on the transfer of Mr. Pinto.
(*c*) Declared unreserved.

With the exception of Mr. Pinto who did very good work in the Chingleput district but little progress has been made. Arrangements have already been made for the transfer of the work in Ganjám and Vizagapatam to a Forest Settlement-officer and it is hoped that a similar arrangement may ere long be made with regard to South Canara.

20. *Reserved lands not brought under settlement.*—The area of reserved lands not yet brought under settlement is shown in Appendix C. The area is large in the Vizagapatam, Kistna, Kurnool, Bellary, Cuddapah, Salem, South Canara and Nilgiri districts. In *Vizagapatam* about 130 square miles were notified as reserved lands in the last month of the year and draft notifications under section 4 are promised to be submitted as soon as the areas have seen demarcated and maps prepared. The question of reserving these tracts is under the Board's consideration, as if included, the total

area of reserved forests will exceed the maximum limit of reservation in the district approved by Government. The delay in *Kistna* was caused by the pressure of other work and by the illness of one of the range officers. In *Kurnool* the issue of notification under section 4 is delayed pending preparation of maps. In *Cuddapah* and *South Canara*, though the balances are still large, the progress made during the year was satisfactory. In the last-named district preliminary demarcation for about 237 miles is said to have been completed and draft notification under section 4 for 104 square miles were submitted before the close of the year. In *Bellary* and *Nilgiris* the reserved lands consist of leased forests and in *Salem* the delay is due to the boundaries of reserved lands requiring alteration before notification for settlement.

21. *Demarcation.*—The subjoined abstract shows the length of boundary lines preliminarily and permanently demarcated up to and during the year under report and the total and the average cost of the work:—

## Abstract G.—Demarcation work done during 1894–95.

| Districts. | Preliminary. | | | | | | Permanent. | | | | | | Reclearing old lines, &c. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | During 1893–94. | | | During 1894–95. | | | During 1893–94. | | | During 1894–95. | | | During 1893–94. | | During 1894–95. | |
| | Miles. | Cost. | Average. | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Average. | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Miles. | Cost. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | Rs. | | Rs. |
| Ganjám .. .. .. .. | .. | .. | .. | 13 | 60 | 4 9 10 | 82 | 1,102 | 13 7 0 | 56 | 452 | 8 1 1 | 152 | 350 | 115 | 325 |
| Vizagapatam .. .. .. | (b) 11 | 18 | 1 10 2 | 9 | 30 | 3 5 4 | 75 | 1,693 | 22 9 2 | 22 | 464 | 21 1 5 | .. | .. | .. | (f) 47 |
| Gódávari .. .. .. | (b) 24 | 194 | 8 1 4 | 46 | 179 | 3 14 3 | 14 | 60 | 4 4 7 | 95 | 550 | 5 12 7 | .. | .. | 106 | 323 |
| Kistna .. .. .. .. | (b) 320 | 1,042 | 3 4 1 | 88 | 53 | 0 9 8 | 8 | 62 | 7 12 0 | 32 | 292 | 9 2 0 | .. | 784 / (f) 58 | .. | 1,011 / (f) 55 |
| Kurnool .. .. .. .. | (b) 515 | 1,103 | 2 2 3 | 198 | 491 | 2 7 8 | 25 | 1,073 | 42 14 9 | 61 | 578 | 9 7 7 | .. | .. | 34 | 113 |
| Bellary .. .. .. .. | (b) 373 | 675 | 1 12 11 | 205 | (c) 260 | 1 4 4 | 145 | 703 | 4 13 7 | 230 | (c) 1,312 | 5 11 3 | .. | .. | 15 | (e) 50 |
| Anantapur .. .. .. | 231 | 10 | 0 0 8 | (d) 337 | 3 | .. | 55 | 933 | 16 15 5 | 3 | (i) 466 | 155 5 4 | .. | 20 | .. | (f) 86 |
| Total .. | 1,474 | 3,042 | 2 1 0 | 896 | 1,076 | 1 3 2 | 404 | 5,626 | 13 14 10 | 499 | 4,114 | 8 3 10 | 152 | 1,212 | 270 | 2,010 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Cuddapah .. .. .. | (b) 360 | 687 | 1 14 6 | 188 | 463 | 2 7 5 | 144 | 1,499 | 10 6 7 | 311 | 3,194 | 10 4 3 | 10 | 340 / (g) 121 | 17 | 190 / (g) 630 |
| Nellore .. .. .. .. | .. | .. | .. | 74 | 270 | 3 10 4 | 84 | 510 | 6 1 2 | 56 | 427 | 7 10 0 | 3 | 9 / (f) 48 | 19 | 51 / (f) 81 |
| Chingleput .. .. .. | (b) 249 | 1,006 | 4 0 8 | 79 | 384 | 4 13 9 | 76 | 853 | 11 3 7 | 78 | 906 | 11 9 10 | .. | 574 / (g) 409 | .. | (f) 694 / (g) 524 |
| North Arcot .. .. .. | (b) .. | .. | .. | .. | .. | .. | 458 | 5,250 | 11 7 5 | 209 | 1,358 | 6 8 0 | 212 | 716 | 17 | 89 |
| South Arcot .. .. .. | (b) 94 | 246 | 2 9 10 | 227 | 446 | 1 15 5 | 383 | 4,941 | 12 14 5 | 263 | 3,556 | 13 8 4 | .. | (g) 1,442 | 182 | 622 / (g) 1,163 |
| Salem .. .. .. .. | (b) 489 | 1,002 | 2 0 9 | 447 | 908 | 2 0 6 | 432 | 2,196 | 5 1 4 | 470 | 2,216 | 4 11 5 | 590 | 1,288 | 676 | 612 |
| Trichinopoly .. .. .. | (b) 224 | 550 | 2 7 3 | 512 | 568 | 1 1 9 | 7 | 88 | 12 9 2 | 150 | 683 | 4 8 10 | .. | (g) 345 | .. | (g) 313 |
| Tanjore .. .. .. .. | (b) 7 | 10 | 1 6 10 | .. | .. | .. | .. | .. | .. | 5 | 11 | 2 3 2 | .. | .. | 80 | 7 |
| Total .. | 1,423 | 3,501 | 2 7 4 | 1,527 | 3,039 | 1 15 10 | 1,584 | 15,337 | 9 10 11 | 1,542 | 12,351 | 8 0 1 | 815 | 5,292 | 991 | 4,976 |
| *Southern Circle.* | | | | | | | | | | | | | | | | |
| South Canara .. .. .. | (b) 230 | 154 | 0 10 9 | 304 | 215 | 0 11 3 | 23 | 394 | 17 2 1 | 11 | 206 | 18 11 8 | .. | 348 | .. | .. |
| North Malabar .. .. .. | — 18 | — 76 | .. | 14 | 172 | 12 4 7 | 76 | 1,031 | 13 9 1 | 62 | 1,130 | 18 3 7 | .. | (h) 183 | .. | .. |
| South Malabar .. .. .. | 47 | 250 | 5 5 1 | .. | .. | .. | 17 | 107 | 6 4 8 | 27 | 600 / (g) 207 | 29 14 2 | 10 | 176 | 1 | .. |
| Nilgiris .. .. .. .. | 59 | 421 | 7 2 2 | 43 | 307 | 7 2 2 | 9 | 126 | 14 0 0 | 25 | 465 | 18 9 7 | 157 | 2,203 / (g) 452 | 43 | 587 / (g) 551 / (h) 107 |
| North Coimbatore. .. .. | (b) 46 | 586 | 12 11 9 | 273 | 2,192 | 8 0 5 | 83 | 1,451 | 17 7 8 | 59 | 1,067 | 18 1 4 | 117 | 849 / (g) 539 | 60 | 309 / (g) 505 |
| South Coimbatore .. .. | (b) 41 | 368 | 8 15 7 | 21 | 370 | 17 9 11 | 65 | 747 | 11 7 10 | 16 | 189 | 11 13 0 | 72 | 493 | .. | .. |
| Madura .. .. .. .. | (b) .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 340 | 1,370 | 8 | 75 |
| Tinnevelly .. .. .. | (b) 180 | 255 | 1 6 8 | 143 | 104 | 0 11 7 | 94 | 1,197 | 12 11 9 | 30 | 233 | 7 12 3 | 44 | 367 | 59 | 326 / (g) 391 |
| Total .. | 585 | 1,958 | 3 5 7 | 798 | 3,360 | 4 3 4 | 367 | 5,053 | 13 12 3 | 230 | 4,097 | 17 13 0 | 740 | 6,980 | 171 | 2,851 |
| Grand Total .. | 3,482 | 8,501 | 2 7 1 | 3,221 | 7,475 | 2 5 2 | 2,355 | 26,016 | 11 0 9 | 2,271 | 20,562 | 9 0 10 | 1,707 | 13,484 | 1,432 | 9,837 |

(a) The Collector has not explained the difference between the closing balance of 1893–94 and the opening balance of 1894–95.
(b) The total amount entered for 1894–95 and that in Form No. 64 against VIII (a) for the same year differ. The figures entered here are those of the Collectors and the figures in Form 64 represent those audited by the Accountant-General; hence the difference.
(c) Excludes pay of temporary watchers entertained at the end of the year.
(d) Demarcated by the Forest establishment. Rs. 3 only was spent for the purchase of a small quantity of lime.
(e) Only Rs. 14 was spent in demarcating the length, the rest relates to cost of forest letters, mounds, &c.
(f) Represents cost of erecting or repairing cairns, posts and aloe fencing.
(g) Represents cost of temporary establishments.
(h) Cost of sign boards.
(i) Includes cost of stone pillars, forest numbers, &c.

22. *Preliminary demarcation.*—In *South Malabar* no new selections were made during the year and hence no preliminary demarcation was undertaken. The small outturn in *Vizagapatam* is due to the fact that the selections were made too late in the year for their boundaries to be demarcated, and there were no other reserves requiring preliminary demarcation. The short work in *Kistna* is ascribed to other pressing work and to the illness of a range officer. The area demarcated in *Ganjám*, *Gódávari*, *Nellore*, *North Malabar*, *Nilgiris* and *South Coimbatore* is commensurate with the selected area on hand. In *Chingleput* better progress was not made owing to the proposals for several of the selected blocks having been returned for rectification.

The small average cost per mile in *Kistna* is due to the fact that hardly any expenditure had to be incurred in cutting the boundary lines, and that in *Bellary* has not been explained. In *Anantapur* the work was done by the existing establishment and no extra cost was therefore incurred. The low rate in *South Arcot* and *Tinnevelly* is ascribed to the adoption of revenue survey stones as forest boundaries. In *Trichinopoly* the low rate for preliminary demarcation which in most cases consisted of stone and mud was due to the absence of growth. Little or no clearing was necessary. The rate in *South Canara*, although higher than in 1893–94 is low compared with other districts and the reason for this has not been stated. The increase in the cost rate in *North Malabar* has not been explained; but that in *South Coimbatore* was due to the clearance of a dense growth of prickly-pear in the Méttupálaiyam range.

23. *Permanent demarcation.*—The work turned out under this head was poor in Vizagapatam, Kistna, Anantapur, South Canara, Nilgiris and Tinnevelly. In *Vizagapatam* work was retarded owing to the illness and incompetence of one of the range officers. In *Kistna* better progress could not be made. It was found the boundary descriptions of old reserves were either inaccurate or the boundaries had been incorrectly marked on the ground. Checking and rectifying these errors demanded much time and attention. Revised notifications for several reserves have been submitted. The short work done in *Anantapur* and *Tinnevelly* has not been explained. The falling off in *South Canara* is ascribed to want of upper subordinates, the time of the range officers having been mainly occupied in selection, preliminary demarcation and settlement. In the *Nilgiris* the work turned out is in excess of that done in the previous year and the Acting Conservator considers that the progress made was satisfactory.

Compared with the cost rate in 1893–94, there was a striking increase in average cost per mile in *Anantapur*, *North and South Malabar* and *Nilgiris*. In *Anantapur* the increase in the cost rate is not real, as the amount includes the cost of stone pillars put up along 100 miles of forest boundary, while the latter length is not included in calculating the rate. The actual average cost is reported to be only Rs. 4–8–0. The increase in *North Malabar* is due to the inclusion of a new item, viz., the cost of putting up sign boards. The rate in *South Malabar* was enhanced by the entertainment of a special establishment for demarcation and by the inclusion of the cost of replacing the missing stones along previously permanently demarcated boundary. In the *Nilgiris* the average cost has arisen on account of the heavy clearings which had to be made in certain reserves.

The nature of the permanent demarcation adopted in almost all the districts consists of a broad cleared line with stone or earth mounds where stone is not available. In some districts stone slabs or stone pillars are also adopted for boundary marks. The width of the cleared line varies according to the needs of the district. Generally it is from 10 to 15 feet but in *Tinnevelly* it is 18 to 20 feet and in *Nellore* 30 feet. The Acting Conservator, Southern Circle, Mr. Gass remarks in connection with the work on the Nilgiris that "it is not much use erecting cairns in places frequented by elephants and it would be advisable to demarcate by means of boards nailed on to trees at a sufficient elevation." It is observed that the Conservator, Southern Circle, has in regard to many districts in that circle omitted to give his opinion as to the system of final demarcation obtaining therein. Speaking generally for all the districts in the Presidency the system of demarcation is commensurate with the requirements of administration. As time and money permit, all roots will be removed from the cleared lines.

24. The total expenditure incurred during the year on all kinds of demarcation, including the reclearing of old lines, amounted to Rs. 37,874 against Rs. 39,421 as per audited accounts. The difference between the two sets of figures has not been explained by several of the Collectors. In the districts, for which explanation has been furnished, the discrepancy is due partly to the exclusion from the figures shown in Abstract G. above, of the cost of the temporary establishment specially entertained for demarcation and for surveys and working plans and of the amount recovered from proprietors of private forests on account of charges incurred in clearing common boundaries, items which are included in the Accountant-General's figures, and partly to the inclusion in Abstract G. of amounts of recoveries made from subordinates for bad work.

## CHAPTER III.

### Surveys and Working Plans.

25. The Survey of India Party continued to work during the year in the Salem and North Arcot districts. In addition the part of the Javadis situated in the South Arcot district was also surveyed together with an adjacent outlying reserve between the Javadis and Kalrayans. In *Salem* the work extended to the remaining portion of the Kalrayan range now completely mapped, and that part of the Javadi range lying in this district. The survey of the Yellagiri Hill was also commenced. In *North Arcot* nearly the whole of the Javadi range was surveyed with the exception of some outlying reserves and part of the south-east edge of the main range. Most of the low range near and to the south and east of Vellore was also surveyed.

The *triangulation* was completed in the North Arcot district (the taluks of Chendragiri and Chittoor) and continued in the Salem district where the work in the Dharmapuri taluk was finished. Boundary traversing was also carried out to some extent.

The topography completed was mapped in series of sheets for each range by districts, 14 sheets for Salem, 12 for North Arcot and 6 for South Arcot. The sheets for *Salem* include 10 reserved forests with an area of 132 square miles, 4 proposed reserves, a part of Narasingapuram reserved forest and part of Nagaluthu proposed reserve, all in the Tirupatur taluk. The sheets for South Arcot include eight reserves with an area of 138 square miles in the Tiruvannámalai taluk, and those for North Arcot embrace twelve blocks covering an area of 152 square miles in the Vellore taluk and one with an area of 24 square miles in the Pólúr taluk, besides parts of three others in the same taluk. In addition, fifteen sheets of the North Arcot district and six of *Salem* completed in 1893–94 which were held back pending settlement of certain questions as to demarcation, were sent in for publication.

The following table shows the outturn during the year in each district :—

| Districts. | | Triangulation. | Traversing. | Topography. |
|---|---|---|---|---|
| | | SQ. MLS. | LINEAR MLS. | SQ. MLS. |
| Salem .. .. .. .. .. .. .. | | 400 | 407·1 | 338·9 |
| North Arcot .. .. .. .. .. .. | | 1,500 | 379·4 | 509 |
| South Arcot .. .. .. .. .. .. | | 18 | 63 | 123 |
| Total .. | 1894–95 .. | 1,918 | 849·5 | 970·9 |
| | 1893–94 .. | 2,000 | 5,156 | 881 |

It will be seen from the table in the margin that the outturn of topography is the highest hitherto attained and the cost rate the lowest. These results are chiefly attributed to the increased experience and effective strength of the party.

| Years. | Topography completed. | Cost rate per square mile. |
|---|---|---|
| | SQ. MLS. | RS. |
| 1888–89 .. .. .. | 168 | 162 |
| 1889–90 .. .. .. | 214 | 149 |
| 1890–91 .. .. .. | 465 | 112 |
| 1891–92 .. .. .. | 659 | 97 |
| 1892–93 .. .. .. | 788 | 78 |
| 1893–94 .. .. .. | 881 | 73 |
| 1894–95 .. .. .. | 971 | 67 |
| Total .. | 4,146 | .. |

The actual expenditure including cost of instruments amounted to Rs. 80,283 for the financial year, and Rs. 73,104 for the survey year ending with 31st August 1895. Excluding the contribution payable by the Government of India, the cost as adjusted by the Accountant-General of the Presidency amounted to Rs. 58,920—*vide* Form No. 64.

26. A temporary staff of surveyors and draughtsmen was also employed departmentally. Their work lay mainly in connection with selection and settlement of reserves. In the *Northern Circle* the surveyors turned out satisfactory work in *Ganjâm* and *Kistna*, the outturn amounting to 139 and 172 miles, respectively. In *Vizagapatam* and *Kurnool* work was hindered by frequent changes in the staff, while in *Anantapur* 24 blocks aggregating about 71 square miles were surveyed. In the *Central Circle* work was confined chiefly to the proposed reserves in *Salem*, and in spite of the unhealthiness of the localities in which the surveyors had to work, 15 blocks of new selections and 4 under settlement were surveyed. In the *Southern Circle* the work in *North Coimbatore* consisted of the survey of the outer boundaries of certain proposed reserves and of the enclosures in one of them. In *South Malabar* 5 miles of the Amarampallem forest were surveyed. The work was interrupted by the unavoidable transfer of the surveyor to other work. In *North Malabar* all the forest roads and fire lines in Begur and Kurchyat blocks were surveyed and plotted on the maps. The extent surveyed in *South Canara* is reported to be $58\frac{1}{2}$ miles (chain and compass) and $150\frac{1}{2}$ miles (plane table). In *Nilgiris* a surveyor was employed towards the close of the year in surveying the blue gum plantations.

27. The draughtsmen in all the circles were engaged in the preparation of sketch-maps to accompany proposals for reservation. They had to attend also to the maintenance of the maps prescribed in section 81 of the Forest Code (Second Edition). In accordance with the suggestion of the Government of India in the review of the Madras Forest Administration report for 1893–94 the local Government has directed that the progress made in the preparation and maintenance of these map records should be reported annually in an appendix to the administration report. This information will be found embodied in appendix D. With selections and settlement on hand much progress has hitherto not been made in the maintenance of these records.

The area of reserved forests in all districts for which final maps have been prepared up to 30th June 1895 amounts to 6,159 square miles. Details will be found in appendix E.

28. *Working Plans.*—But little progress has to be recorded under this head; the collection of data for future plans has been continued. The question of pushing on with the preparation of simple working plans based upon area has been urged by Government in its Order, No. 531, dated 9th August 1895, and it is hoped that appreciable progress will be made in this direction in the current year. The subject cannot be seriously taken in hand until settlement is completed and more adequate establishments have been sanctioned.

### *Northern Circle.*

*Ganjâm.*—A record of the measurements of sâl trees in selected quarter-acre plots and the collection of statistics of demand and supply for each reserve were continued during the year.

*Vizagapatam.*—No working plans were framed for want of maps. A preliminary working circle was roughly formed in the Sarvasiddhi range. All reserves were closed except Peddapalli, in which two coupes were worked departmentally for firewood and small timber, leaving about 20 standards per acre in coupe No. I of 37 acres and 30

in coupe No. II of 40 acres. The yield amounted to 130 tons in the former and 55 in the latter, realizing Rs. 137 and 76, respectively, against a working expenditure of Rs. 174 and 77, respectively. Nothing is said by the Collector as to how the closing of all reserves but one in the taluk affected the agricultural population. It is certain that no single reserve, however favourably situated, could meet the local wants of the whole taluk satisfactorily. In the present instance the Board has ascertained that the area of unreserved waste is about three times that of reserved forests and that two-thirds of the taluk consist of zemindari and inam lands; doubtless the village requirements are largely met from these.

*Gódávari.*—The provisions of the working plans of Narsapur plantations and Coringa reserves were adhered to.

*Kistna.*—The progress consisted chiefly in the collection of statistics and notes for future working plans. Coupe No. III of the Guntúr babul working circle was not felled over owing to absence of a fair offer for the wood. The results of two years' working in the mangrove forests are as follow :—

| | Coupe No. I felled, 1893-94. | | | Coupe No. II felled, 1894-95. | | |
|---|---|---|---|---|---|---|
| | Area. | Tons felled. | Revenue. | Area. | Tons felled. | Revenue. |
| Masulipatam working circle .. | 1,160 | .. | .. | 1,062 | 125 | 312 |
| Avanigadda .. .. .. .. | * 2,280 | 2,558 | 6,406 | 1,690 | * 1,114 | 2,784 |
| | | 56 | 139 | | | |
| Repalle .. .. .. .. .. | 1,690 | 1,821 | 4,560 | 806 | 1,981 | 4,954 |
| Total .. | 5,130 | 4,435 | 11,105 | 3,558 | 3,220 | 8,050 |

* Felled in July 1894 and credited the accounts of 1894-95.

With a view to ascertain the rate of growth of Yepi (*Hardwickia binata*), Chirimaun (*Anogeissus latifolia*) and Billhedu or satinwood (*Chloroxylon Swietenia*), specimens of the woods were collected and the annual rings counted with the results shown below. The Acting Conservator (Mr. Hooper) doubts the reliability of these countings and it is open to question whether the age can be accurately ascertained by counting supposed annual rings in these latitudes. Sample areas for valuation of the stock in the Yepi (*Hardwickia binata*) and Sundra (*Acacia sundra*) forests were counted out.

| Years of growth average. | Yepi, 153 specimens examined. | | Chirimaun, 110 specimens examined. | | Satinwood, 69 specimens examined. | |
|---|---|---|---|---|---|---|
| | Diameter without bark. | Diameter with bark | Diameter without bark. | Diameter with bark. | Diameter without bark. | Diameter with bark. |
| | INCHES. | INCHES. | INCHES. | INCHES. | INCHES. | INCHES. |
| 5 .. .. .. .. .. | 2·04 | 2·46 | 2·25 | 2·48 | 1·93 | 2·20 |
| 10 .. .. .. .. .. | 3 23 | 4·01 | 2·75 | 2·98 | 2·21 | 2·51 |
| 15 .. .. .. .. .. | 4·54 | 5·25 | 3·50 | 3·75 | 2 53 | 2·96 |
| 20 .. .. .. .. .. | 6·10 | 6·92 | 4·69 | 4·99 | 3·18 | 3·55 |
| 25 .. .. .. .. .. | 7·35 | 8·40 | 5·45 | 5·80 | 3·83 | 4·20 |
| 30 .. .. .. .. .. | 8·43 | 9·63 | 6·60 | 6·95 | 4·45 | 4·90 |
| 35 .. .. .. .. .. | 9·43 | 10·79 | 7·25 | 7·65 | 4·95 | 5·48 |
| 40 .. .. .. .. .. | 10·39 | 11·86 | 8·00 | 8·45 | 5·30 | 5·83 |
| 45 .. .. .. .. .. | 11·33 | 12·90 | .. | .. | 5·66 | 6·20 |
| 50 .. .. .. .. .. | 12·26 | 13·91 | .. | .. | 6·00 | 6·56 |
| 55 .. .. .. .. .. | 13·18 | 14·90 | .. | .. | 6·45 | 7·02 |
| 60 .. .. .. .. .. | .. | .. | .. | .. | 6·85 | 7·47 |
| 65 .. .. .. .. .. | .. | .. | .. | .. | 7·25 | 1·90 |

*Bellary.*—Mr. Hooper's working plan for the eastern slopes of the Ramandrug range of the leased forests was given effect to, but the demand for wood was found slack. The Collector states that the plan will require modification if the demand for wood does not improve considerably. The Acting Conservator sees no immediate necessity for any change. He remarks that the plan was devised more with reference to improvement of growth than to demand. In the Rayadrug forests the system of located fellings was introduced and the method of working adopted is coppice with standard.

*Central Circle.*

*Nellore.*—In the Srîharikóta forest cutting was carried on in the second compartment and 2,495 tons of fuel were extracted during the year against 2,748 in the previous year. The decrease is ascribed to the tramway wagons having been under repair for three months. The working plans for the casuarina plantations were modified. A large balance of the previous year's stock remained on hand at the commencement of the year.

*Cuddapah.*—There were no new working plans. The provisions of the Balapalle working plans were modified to the extent that no thinnings were made in compartments felled over 12 years ago. The rate of growth of the coppice is slower than was anticipated and thinnings are at present unnecessary.

*South Arcot.*—The provisions of the preliminary working schemes for the Anamalai reserved forest in the Tiruvannámalai range and of the working circle, comprising the casuarina plantations of Talankoda, Fort St. David and Shonankuppam in the Cuddalore range, were acted up to. The preparation of a working scheme comprising the casuarina plantations of Doni Durai (north and south), Nochikadu and Periyakuppam is delayed pending notification of the last named block under section 16.

*Trichinopoly.*—The yield from the Padugai plantations on the south bank of the Cauvery amounted to 2,626 tons during the year against 2,415 tons estimated in the working scheme.

*Salem.*—The area to be felled up to the end of the year in the Morur block according to working plan was felled departmentally and the produce for the most part supplied to the Madras Railway Company as engine fuel at a profit.

*Southern Circle.*

*Tinnevelly.*—The forests were hitherto worked on a system of located fellings; some under direct departmental management and others through contractors. The necessity for great care in the selection of coupes in view to the formation of small working circles is fully recognised by the District Forest-officer and the Conservator, and arrangements are being made accordingly. During the year under review a simple working plan for an area of 3,046 acres, called Block I, Padarmalai, of the Mundanthorai working circle in the Pápanásam ghât forest was framed. It is to be worked on the coppice with standard system with a rotation of 20 years. Twenty acres of coupe No. III of compartment A were felled over with the result that the yield per acre amounted to 14 tons against 20 estimated in the working plan. Owing to the smallness of the area, it is considered premature to attempt definite conclusions at present. The preparation of four more working schemes is in progress.

*South Coimbatore.*—The provisions of the Sholakarai working scheme were followed, and the preliminary working scheme for the Singara tope working circle in the Odanthorai reserve was revised and submitted to the Board at the close of the year. A revised plan for the Chinnár working circle was still under consideration.

*Nilgiris.*—The blue gum plantations in the Ootacamund and Coonoor ranges were felled during the year under the existing preliminary working schemes. The demand, however, is slack owing to the competition from private plantations. The most profitable method of utilizing the yield of the plantations on the Nilgiris appears to be conversion into charcoal which finds a ready sale. Arrangements are being made to increase the supply. The matter requires careful attention, but must await the general question of the treatment of the plantations mooted in paragraph 5 of Government Order, Mis. No. 531, dated 9th August 1895. Mr. Tireman, Assistant Conservator of Forests, has been, for some months, engaged upon survey and collection of data for the preparation of working plans for the plantations in the Ootacamund range.

*North Malabar.*—No working plan has been prepared, but the old system of felling dead, or dying trees wherever they could be found, has been stopped. Definite blocks are now selected and fellings commenced only after trees have been selected and marked by the Range officers.

*South Malabar.*—The provisions of the working plan for the Walayar reserve were adhered to and the results of the year's cutting were satisfactory. It has been found here as in Sholakarai in South Coimbatore that the period of rotation has been

fixed too low and will have to be extended by five years. A regular working plan for the plantations and a preliminary working scheme for the natural forests in the Nílambúr and Amarampalem ranges were prepared and await sanction.

*South Canara.*—A working plan for Poitaji-Koyapalli block was elaborated and awaits sanction. Plans for two other blocks were under preparation.

## CHAPTER IV.

### PROTECTION AND IMPROVEMENT.

#### (a) *Establishment.*

29. The superior staff consisted of 3 Conservators, 21 Deputy Conservators, 8 Assistant Conservators and 11 extra Assistant Conservators, as against 3, 20, 8 and 11, respectively, in the preceding year. During the year under report one Assistant Conservator (Mr. Bryant) was promoted permanently to Deputy Conservator and one trained officer from England (Mr. Batchelor) was brought on the staff of Assistant Conservators.

The scale of permanent subordinate forest establishment remained the same as in the previous year and consisted of 61 rangers, including 3 Sub-Assistants, 128 Foresters and 728 Forest guards, distributed as under—

| — | Rangers, including Sub-Assistants. | Foresters. | Forest guards. |
|---|---|---|---|
| Northern Circle .. .. .. .. .. | 16 | 31 | 220 |
| Central ,, .. .. .. .. .. | 23 | 48 | 298 |
| Southern ,, .. .. .. .. .. | 22 | 49 | 210 |

The permanent office establishment consisted of 116 clerks and 214 peons as against 118 and 217, respectively, in the preceding year. The decrease is due to the reduction of 2 clerks and 3 masalchies in the offices of the Conservators of Forests. The distribution of the office staff circlewar was as follows :—

| — | Northern Circle. | Central Circle. | Southern Circle. |
|---|---|---|---|
| Clerks .. .. .. .. .. .. | 23 | 46 | 47 |
| Peons .. .. .. .. .. .. | 73 | 75 | 66 |

The entertainment of temporary establishment was regulated according to actual requirements. There was a large increase during the year principally under watchmen. This was unavoidable, as the increased area brought under reservation required protection. The cry for larger establishments, more especially under subordinate protective staff, continued. A large number of temporary Foresters was sanctioned during the year both in the *Northern* and the *Southern Circles*. Most of them in the former circle had to be employed in the Kistna district in connection with the new grazing scheme. On the whole the increase in the temporary establishment was fully justified by the large increase in the revenue realized during the year. It is hoped that the long-looked for augmentation of the subordinate forest establishment will soon be a reality, as the feeling of discontent among the subordinates in consequence of slow promotion still continues and Dehra Dun men are trying to seek employment elsewhere.

#### (b) *General protection and breaches of Forest laws.*

30. No marked improvement in the protection of reserves and prevention of breaches of Forest laws can be expected until the numerical strength of the protective staff is sufficiently augmented. Particulars relating to prosecutions for breaches of Forest laws during 1894–95 are given in Form No. 63 appended to this report and the following is an abstract thereof. The particulars of the preceding year are also shown in this abstract to facilitate comparison :—

| Name of Circle. | Year. | Number of cases pending at the commencement of the year. | New cases of the year. | | | | | Total cases. | Disposed of during the year. | | | | | Cases pending at close of the year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Injury to forests by fire. | Unauthorized felling or appropriation of wood and minor produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. Number of cases. | Acquittals. Number of cases. | Compounded. Number of cases. | Withdrawn. Number of cases. | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Northern Circle .. | 1893-94 .. .. .. | 916 | 21 | 1,327 | 557 | 151 | 2,056 | 2,972 | 1,050 | 353 | 863 | 180 | 2,446 | 526 |
| | 1894-95 .. .. .. | 492 | 10 | 1,560 | 715 | 263 | 2,548 | 3,040 | 876 | 224 | 1,108 | 257 | 2,465 | 575 |
| | Difference in favour or against the year under report .. .. .. | — 424 | — 11 | + 233 | + 158 | + 112 | + 492 | + 68 | — 174 | — 129 | + 245 | + 77 | + 19 | + 49 |
| Central Circle .. | 1893-94 .. .. .. | 668 | 16 | 2,010 | 2,355 | 349 | 4,730 | 5,398 | 1,516 | 366 | 2,629 | 349 | 4,860 | 538 |
| | 1894-95 .. .. .. | 538 | 40 | 2,067 | 2,206 | 466 | 4,779 | 5,317 | 1,594 | 331 | 2,499 | 331 | 4,755 | 562 |
| | Difference in favour or against the year under report .. .. .. | — 130 | + 24 | + 57 | — 149 | + 117 | + 49 | — 81 | + 78 | — 35 | — 130 | — 18 | — 105 | + 24 |
| Southern Circle .. | 1893-94 .. .. .. | 381 | 16 | 2,088 | 743 | 374 | 3,221 | 3,602 | 746 | 200 | 1,817 | 265 | 3,028 | 574 |
| | 1894-95 .. .. .. | 574 | 29 | 1,466 | 733 | 328 | 2,556 | 3,130 | 819 | 195 | 1,502 | 316 | 2,832 | 298 |
| | Difference in favour or against the year under report .. .. .. | + 193 | + 13 | — 622 | — 10 | — 46 | — 665 | — 472 | + 73 | — 5 | — 315 | + 51 | — 196 | — 276 |
| Total for the Presidency .. .. | 1893-94 .. .. .. | 1,965 | 53 | 5,425 | 3,655 | 874 | 10,007 | 11,972 | 3,312 | 919 | 5,309 | 794 | 10,334 | 1,638 |
| | 1894-95 .. .. .. | 1,604 | 79 | 5,093 | 3,654 | 1,057 | 9,883 | 11,487 | 3,289 | 750 | 5,109 | 904 | 10,052 | 1,435 |
| | Difference in favour or against the year under report .. .. .. | — 361 | + 26 | — 332 | — 1 | + 183 | — 124 | — 485 | — 23 | — 169 | — 200 | + 110 | — 282 | .. |

31. In the *Northern Circle* the correct number of cases pending from 1893–94 in *Vizagapatam* is now reported to be only 13 against 47 in the previous year's report. This accounts for the discrepancy noticeable in the figures entered in column 3 of the foregoing abstract. The total number of new cases during the year exhibits a reduction of 124 cases or a little over 1 per cent. on the preceding year's total for the Presidency. In the *Southern Circle* the decrease amounted to 665 cases or about 21 per cent., while in the *Northern* and *Central Circles* there was an increase of 492 and 49 cases or 24 and 1 per cent., respectively.

The number of cases of injury by fire (column 4) diminished materially in the *Northern Circle* in almost all the districts except *Vizagapatam* and increased in the other two circles, principally in the districts of *Salem*, *Madura* and *Malabar* (*North*).

The number of cases of unauthorized felling or appropriation of wood and minor produce (column 5) increased considerably in the *Northern Circle*, mainly in the districts of *Ganjám*, *Kurnool* and *Bellary*. The increase was, however, partly counterbalanced by decreases in *Anantapur* of about 22 per cent. and in *Kistna* of about 26 per cent., which have not been explained. The increase in the other districts named above is generally ascribed to better supervision and increased vigilance on the part of subordinates. In the *Central Circle* the number of cases under this head increased largely in the *Salem* district owing it is said to the expansion of the forest area and to better detection. In the *Southern Circle* the great falling off in the number of cases is due to the introduction of a change in *South Canara* in the system of treating offences, whereby all petty offences, such as simple trespass and minor thefts of forest produce for the first time (which amounted to 736 cases during the year), were not reported to the Magistracy, but disposed of by the District Forest-officer himself by admonishing the persons concerned. The Acting Conservator (Mr. Gass) considers that the new procedure will probably lead to a very large increase in the number of such offences. The results of the change will be carefully watched. If the Conservator's forebodings prove true, a few exemplary punishments should have the desired effect and doubtless the District Magistrate will take the necessary action. The Forest Member of the Board of Revenue is of opinion that, save for special reasons, simple trespass should not be treated as an offence at all.

The number of cases of grazing without permission (column 6 of the abstract) increased considerably in the *Northern Circle*, chiefly in the districts of *Gánjam*, *Anantapur* and *Kurnool*. No explanation is forthcoming in the district reports in regard to the increase in the first two districts, while that in the last-named district is said to be probably in the number of detections and not in that of offences. It is noteworthy that no increase occurred under this head in the *Kistna district*, notwithstanding the fact that under the parcellaire system of grazing (newly introduced) an increased area has been brought under control. The system was worked leniently; new offenders were let off with a warning and not proceeded against under the Forest law.

In the *Central Circle* illicit grazing in *North Arcot* is believed to have diminished very considerably. This accounts for the large decrease in the number of new cases under this head in that circle.

The number of cases under other offences (column 7) rose mainly in *Vizagapatam* and *Gódávari* in the *Northern Circle*, and in *Nellore*, *South Arcot* and *Trichinopoly* in the *Central Circle*; while the number in the *Southern Circle* showed a large decrease in *South Canara* for reasons stated under the preceding head. In *Vizagapatam* the increase is reported to be due partly to better detection in the Palkonda range, and partly to the prosecution of several cases in the Golconda range by the Range officer without sufficient inquiry and without the District Forest officer's sanction. Steps have been taken to prevent a recurrence. In *Gódávari* the increase occurred in the number of driftwood cases.

The increase in *Nellore* is attributed to greater vigilance, while that in *South Arcot* was chiefly under petty offences. The rise in *Trichinopoly* has not been explained in the district report.

32. The percentage of cases—(1) withdrawn, (2) compounded and (3) prosecuted to cases disposed of during the year as compared with the results of the preceding year is as follows:—

| Name of Circle. | Year. | Percentage of cases withdrawn to cases disposed of. | Percentage of cases compounded to cases disposed of. | Percentage of cases prosecuted to cases disposed of. | Percentage of acquittals to cases dealt with by the Magistracy. |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Northern Circle .. .. .. | 1893-94 .. .. .. | 7 | 35 | 58 | 25 |
| | 1894-95 .. .. .. | 10 | 45 | 45 | 20 |
| Central ,, .. .. .. | 1893-94 .. .. .. | 7 | 54 | 39 | 19 |
| | 1894-85 .. .. .. | 7 | 53 | 40 | 17 |
| Southern ,, .. .. .. | 1893-94 .. .. .. | 9 | 60 | 31 | 21 |
| | 1894-95 .. .. .. | 11 | 53 | 36 | 19 |
| Total .. | 1893-94 .. .. .. | 8 | 51 | 41 | 21 |
| | 1894-95 .. .. .. | 9 | 51 | 40 | 18 |

The variations in the percentages of cases prosecuted are accounted for by the variations in the percentages of cases withdrawn and compounded.

The most satisfactory feature in the results of the year as compared with those of the preceding year is a decrease in all the circles in the percentages of cases acquitted to cases dealt with by the Magistracy, the figures being 5, 2 and 2 in the *Northern*, *Central* and *Southern Circles*, respectively, the net result for the Presidency being a decrease of 3 per cent. In the *Northern Circle* the decrease occurred in *Ganjám*, *Anantapur*, *Kurnool* and *Gódávari*, the variation in the percentages being 25, 7, 6 and 4, respectively. The districts of *Kistna* and *Bellary* showed an increase of 7 and 6 per cent., respectively. In *Kistna* certain long standing cases of illicit grazing could not be clearly proved, while no explanation is forthcoming for *Bellary*. In the *Central Circle* the decrease amounted to 13 in *Salem*, 8 in *South Arcot* and 2 in *Chingleput*. There was a large increase in *Cuddapah*, which is accounted for by the fact that Magistrates would not convict in cases where cattle (for which there was a license) were found inside the reserve without the license being in the possession of the graziers concerned. Such cases should not have been prosecuted at all, the punishment for breach of condition of the license being restricted to its cancelment or suspension for a time. In the *Southern Circle* the decrease was 8 in *North Coimbatore*, 7 in the *Nilgiris*, 6 in *Tinnevelly*, 1 in *South Coimbatore* and 1 in *South Canara*. There was a large increase in *South Malabar* under cases of trespass and unauthorized clearing for cultivation in escheat lands selected for reservation in which only possession could be proved. The cases fell through as the Magistrates called for records to prove the title of Government to the escheat lands in question which were not available. The percentage of cases withdrawn to cases disposed of during the year shows but a slight increase for the Presidency. The increase amounted to 3 in the *Northern* and 2 in the *Southern Circles*. In the former it occurred in *Vizagapatam*, *Kistna* and *Kurnool*. The increase in *Vizagapatam* was due to the irregularity in the Golconda range on the part of the Range officer referred to in paragraph 31 *supra*; that in *Kistna* to certain unimportant cases which had been long pending having been withdrawn during the year; and that in *Kurnool* to certain weak cases brought to light by overzealous subordinates having been similarly dealt with. In the *Southern Circle* the increase was chiefly in *Malabar*, *North and South*, *Madura* and *Tinnevelly*; in *North Malabar* cases in which strong evidence was not forthcoming had been withdrawn; in *South Malabar* a similar course was pursued in regard to certain cases of trespass and clearing for cultivation on escheat lands selected for reservation. The increase in *Madura* has not been explained, while that in *Tinnevelly* is attributed to the withdrawal of several cases of illicit grazing in which the owners of cattle could not be prosecuted successfully. In the *Central Circle* a large increase in *Cuddapah* due to withdrawals of several long pending cases and of others, in which evidence independent of forest subordinates was wanting, was counterbalanced by small decreases in certain other districts, the net result for the circle thus remaining unaffected. The percentage for the Presidency of cases compounded to total cases disposed of remained the same as in the preceding year, viz., 51 per cent. The Board has no reason to believe the power of compounding has been strained by District Forest-officers. The variations

in the percentages of the circle totals consisted of an increase of ten in the *Northern Circle* and a decrease of one and seven in the *Central* and *Southern Circles*, respectively. In the *Northern Circle* the increase was considerable in *Ganjám*, *Gódávari* and *Bellary* and less so in *Kurnool* and *Anantapur*, while *Vizagapatam* and *Kistna* showed a small decrease. In the *Central Circle* there was a large decrease in *Cuddapah* and *Trichinopoly* followed by an increase in *Chingleput*, *North Arcot* and *South Arcot*. In the *Southern Circle* the large decrease was in *North* and *South Malabar* and *South Canara*, while the other districts showed an increase. A decrease in the percentage of cases acquitted by the magistracy is noticeable in almost all the districts in which an increase has occurred in the percentage of cases compounded. The amount of compensation realized during the year as compared with that in the preceding year is shown in the following abstract:—

| Name of Circle. | Year. | Amount of compensation realized. | Average amount per case. | Average amount per person accused. |
|---|---|---|---|---|
| | | Rs. | Rs. A. P. | Rs. A. P. |
| Northern Circle .. .. | 1893-94 .. | 8,442 | 9 13 0 | 3 7 0 |
| | 1894-95 .. | 11,443 | 10 5 0 | 3 9 0 |
| Central Circle .. .. | 1893-94 .. | 19,016 | 7 4 0 | 2 15 0 |
| | 1894-95 .. | 22,624 | 9 1 0 | 3 4 0 |
| Southern Circle .. .. | 1893-94 .. | 10,137 | 5 9 0 | 3 4 0 |
| | 1894-95 .. | 10,551 | 7 0 0 | 3 5 0 |
| Total for the Presidency .. | 1893-94 .. | 37,595 | 7 1 0 | 3 2 0 |
| | 1894-95 .. | 44,618 | 8 12 0 | 3 5 0 |

It will be seen from the above figures that the average per case for the Presidency shows an increase of Rs. 1-11-0, while the average per person accused has risen by only 3 annas. But little weight should be placed upon this average, it forms no criterion. In cases of illicit grazing, for instance, the compensation is based upon the number of cattle-found trespassing.

The small increase in the average per case in the *Northern Circle* was in *Ganjám*, *Gódávari* and *Anantapur*. The increase in the *Central Circle* occurred in *South Arcot* in the Tiruvannamalai range where a large number of deliberate cases of illicit grazing of cattle and more specially of goats was compounded at enhanced rates. It was found the acceptance of a low rate per head had no deterrent effect, and even now goat herds willingly pay the compensation demanded. The increase in the *Southern Circle* occurred in *South Canara*, *North Coimbatore* and *Tinnevelly*. Generally the cases compounded were trivial. In *Bellary*, however, one case of illicit burning of charcoal in which 41 persons were concerned was compounded for Rs. 1,555. No special reasons are assigned in the district report for compounding this case, and an explanation has been called for.

33. Of the cases prosecuted during the year before the magistracy, the following may be regarded as of some importance. In *Gódávari* a case was detected in which eleven cart-loads of teak timber together with carts and bullocks were confiscated and the offenders sentenced to imprisonment. In *Cuddapah* the inquiry into the serious case of embezzlement by a permit-issuing gumastah referred to in the last year's report resulted in the accused's imprisonment for a long term. In *South Arcot* a forest guard and a few watchmen were severely beaten when engaged in detection by a set of lawless people, and the matter is *sub-judice*. In *Madura* a watcher was murdered for having been strict in detection. The case was committed to the sessions where it was thrown out for want of evidence. In *North Coimbatore* a case of illicit felling of sandalwood on a large scale was prosecuted and conviction secured. 1,435 cases were pending disposal at close of the year against 1,604 at its commencement. The decrease occurred principally in *South Canara*, where the District Magistrate is stated to have brought about the speedy disposal of cases pending with the subordinate Magistrates. The number of pending cases has largely increased in *Vizagapatam*, *Bellary* and *Madura*. This is probably due to the increase in the number of new cases towards the end of the year in these districts.

(c) *Forest-fires and fire-protection.*

34. The following abstract exhibits the results of fire-protection :—

*Fire-protection.*

| Circle. | Up to 30th June 1893. | | During 1893-94. | | | During 1894-95. | | |
|---|---|---|---|---|---|---|---|---|
| | Area of forest reserves attempted in square miles. | Total cost per square mile. | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. |
| | | Rs. A. P. | | | Rs. A. P. | | | Rs. A. P. |
| Northern .. .. | 1,312 | 60 5 6 | 1,172 | 90 | 11 4 11 | 1,128 | 93 | 10 14 8 |
| Central .. .. .. | 2,407 | 53 12 2 | 2,484 | 95 | 5 10 5 | 2,517 | 94 | 5 2 8 |
| Southern .. .. | 1,381 | 112 4 10 | 1,388 | 95 | 13 9 5 | 1,334 | 94 | 12 11 11 |
| Total .. | 5,100 | 71 4 10 | 5,044 | 94 | 9 2 5 | 4,979 | 94 | 8 7 11 |

The amount expended during the year as per form No. 64 was Rs. 42,295 against Rs. 46,155 in the preceding year. The decrease amounted to Rs. 968 in the *Northern Circle*, Rs. 1,041 in the *Central Circle* and Rs. 1,851 in the *Southern Circle*. The average cost per square mile also shows a decrease on the previous year's rate both for the Presidency as well as for each circle. The decreases are due to savings under cutting and clearing of fire-lines or patrol establishment. No detailed comparison of cost is practicable. In future, Collectors' reports will contain full information as to the system of fire-protection in vogue. In some districts little or nothing is done in the way of fire-traces or fire-lines and the fire-protection consists in the entertainment of fire-patrols during the hot season. Such men are useful in collecting villagers and giving information in cases of outbreak of fire, but an arrangement of this kind can hardly be termed rigid fire-protection.

The area attempted to be protected during the year shows a decrease of 44 square miles in the *Northern Circle*, an increase of 33 square miles in the *Central Circle* and a decrease again of 54 square miles in the *Southern Circle* as compared with the area attempted in the previous year. In the *Northern Circle* the decrease was in *Vizagapatam* and *Kistna*. In the former, protection was confined to well-selected areas and in the latter, grazing compartment lines cut in connection with the new grazing scheme also served as fire-lines. In the *Central Circle*, the increase occurred in *North Arcot* and *Salem*. It was particularly large in the former district where protection was extended to nine new blocks. In the *Southern Circle* the decrease was in *North Coimbatore* where certain large areas, the protection of which was nominally attempted during the preceding year, had to be abandoned during the year under report as being too large to be really protected.

The area burnt is reported at 7 per cent. of the area attempted in the *Northern Circle* and at 6 per cent. in each of the other two circles against 10 per cent. and 5 per cent. respectively in the preceding year.

35. The percentages for the several districts are shown below as compared with those relating to the season of 1893-94 :—

| Northern Circle. | | | Central Circle. | | | Southern Circle. | | |
|---|---|---|---|---|---|---|---|---|
| Districts. | Percentage of fires to area attempted in 1893-94. | Percentage of fires to area attempted in 1894-95. | Districts. | Percentage of fires to area attempted in 1893-94. | Percentage of fires to area attempted in 1894-95. | Districts. | Percentage of fires to area attempted in 1893-94. | Percentage of fires to area attempted in 1894-95. |
| Ganjám .. | 5 | 2 | Cuddapah .. | 10 | 13 | South Canara .. | 1 | 5 |
| Vizagapatam .. | 2 | .. | Nellore .. | 1 | .. | North Malabar .. | 3 | 17 |
| Gódávari .. | 9 | 5 | Chingleput .. | .. | .. | South Malabar .. | .. | .. |
| Kistna .. | 4 | 8 | North Arcot .. | 2 | 2 | Nilgiris .. | 1 | 2 |
| Kurnool .. | 35 | 33 | South Arcot .. | 1 | 4 | North Coimbatore. | 20 | 8 |
| Bellary .. | 14 | 9 | Salem .. | 3 | 2 | South Coimbatore. | 2 | 8 |
| Anantapur .. | 9 | 1 | Trichinopoly .. | .. | .. | Madura .. | 2 | 3 |
| | | | Tanjore .. | .. | .. | Tinnevelly .. | 10 | 11 |
| | 10 | 7 | | 5 | 6 | | 5 | 6 |

In *Ganjám* protection was assisted by heavy showers during the hot season. In *Godávari* the chief fires occurred in four reserves due partly to incendiarism and partly to accident and carelessness on the part of the subordinates. It is observed that the Range officer responsible for this result in one reserve has been reduced. In regard to the remark made by the Government of India in its review on the last year's report that the forests in parts of this district do not appear to enjoy the needful protection from fire and unregulated grazing, the Acting Conservator states that the matter is being considered but fears that with the available small staff and bad climate ordinary fire-protection will always be a doubtful success especially in the Agency tracts inhabited by wild tribes. He adds that as already urged by him (*vide* paragraph 2 of his letter in Government Order, No. 654, Revenue, dated 26th September 1895) the application of rules for rigid fire conservancy should await some settled plan of dealing with each forest.

In *Kistna* there were four fires during the year, of which two were extensive, burning an area of over 7,000 acres. One of these was the work of an incendiary caught in the act of firing the forest and the other is reported to have been caused by a fire crossing from Kurnool. In Kurnool the results are said to be satisfactory on the whole. For the extensive Nallamalai Hill conflagrations the Chenzus and the railway subordinates are reported to be answerable. The Chenzus like many hill tribes are difficult to deal with. They fire the growth purposely to facilitate tracking of game, collection of the *bassia latifolia* fruit and to keep the paths open. As regards the alleged mischief by the railway subordinates the matter has been brought to the notice of Government separately—*vide* Board's Proceedings, F. Mis. No. 1392, dated 23rd September 1895. The Acting Conservator remarks that the results do not altogether justify the policy hitherto pursued in the Nallamalais as regards fire-protection. It is believed that steps are being taken to remedy the defects.

In *Bellary* there was a decrease in the cost of fire-protection though the fire-lines were made broader. The result is reported to be due to better supervision in the Sandúr range. There were three fires in the leased forests and the area burnt over was 4,916 against 10,339 acres in the preceding year. The most important fire occurred in the Sandúr leased forests. One fire is ascribed to the carelessness of a guard when burning the fire-lines and the other two to incendiarism and lightning. It is satisfactory to record that the administrator of the Sandúr State cordially co-operated in the matter of fire protection. The results of protection in Anantapur are reported satisfactory, the area which escaped fire being as high as 99 per cent. It is remarked, however, that larger areas than those reported were probably burnt. In the *Central Circle*, the success in *Nellore* is attributed to the vigilance on the part of the subordinates and to timely rains. In *Cuddapah* the area burnt appears to have been very much under-estimated. It is reported that the majority of the fires was due to incendiarism. The increase in *South Arcot* was due partly to the very dry weather experienced and partly to incendiarism.

In the Southern Circle the larger percentage of fires in the protected areas in South Canara has not been accounted for in the district report but as regards forest-fires in the district generally it is stated that they were more than usual owing to the lateness of the monsoon and the almost entire absence of early rains and thunder-storms. In North Malabar the protection of a considerably larger area was attempted but with unsatisfactory results owing chiefly to prolonged drought. In *Nilgiris* the season was unusually dry and about 1,905 acres in the Mudumalai leased forests were burnt. In *North Coimbatore* the results are more satisfactory notwithstanding the very unfavourable season. This is because the protection during the year was more real and confined to a very much smaller area. In *South Coimbatore* the year was an unfortunate one and a number of fires occurred including one of over 4 square miles in the Tunacadavu range. The origin of the fire is unknown. The results in Madura and Tinnevelly cannot be regarded as unsatisfactory considering the unfavourable season. In the former a serious fire occurred in the Gundan shola plantations causing much damage. The cause of the fire is ascribed to sparks having flown from a fire outside across the 50 feet cleared trace.

(d) *Grazing.*

36. The grazing revenue again shows a material increase upon the previous year amounting to Rs. 61,402. This satisfactory result is attributable to more efficient

control and improvement in the methods of collection of grazing fees and is not due to increased rates or the imposition of unnecessary restrictions.

The subjoined table shows the realizations in each district during the year under review as compared with the results of the preceding year :—

| Districts. | Revenue from grazing fees, grazing contracts and sale of grass realized in | | Rates of grazing fees levied. |
|---|---|---|---|
| | 1893–94. | 1894–95. | |
| 1 | 2 | 3 | 4 |
| *Northern Circle.* | Rs. | Rs. | |
| Ganjám .. .. .. .. .. | 2,801 | 5,112 | Half the sanctioned rates charged. |
| Vizagapatam .. .. .. .. .. | 190 | 1,508 | Do. do. |
| Gódávari .. .. .. .. .. | 3,359 | 2,155 | Do. do. |
| Kistna .. .. .. .. .. .. | 74,087 | 90,144 | Full sanctioned rates charged. |
| Kurnool .. .. .. .. .. | 11,077 | 18,253 | Half the sanctioned rates charged. |
| Bellary .. .. .. .. .. | 2,920 | 5,506 | Do. do. |
| Anantapur .. .. .. .. .. | 2,459 | 4,903 | Do. do. |
| Total .. | 96,893 | 1,27,581 | |
| *Central Circle.* | | | |
| Cuddapah .. .. .. .. .. | 10,426 | 17,868 | Maxima rates are charged, but the rate for buffaloes has recently been reduced by half. |
| Nellore .. .. .. .. .. .. | 15,584 | 23,759 | Grazing is leased out in this district. |
| Chingleput .. .. .. .. .. | 5,785 | 6,826 | Varying rates within sanctioned rates. |
| North Arcot .. .. .. .. .. | 42,782 | 26,951 | Maxima rates on non-privileged and half rates on privileged cattle. |
| South Arcot .. .. .. .. .. | 15,173 | 25,792 | Local cattle, half rates ; rest, full. |
| Salem .. .. .. .. .. .. | 19,654 | 24,164 | Half rates on privileged and full rates on non-privileged cattle. |
| Trichinopoly .. .. .. .. .. | 5,442 | 11,500 | Full rates charged. |
| Tanjore .. .. .. .. .. | 482 | 498 | Do. |
| Total .. | 1,15,328 | 1,37,358 | |
| *Southern Circle.* | | | |
| South Canara .. .. .. .. .. | 3,685 | 3,976 | Half rates charged. |
| North Malabar .. .. .. .. | 1,226 | 1,675 | Three annas on buffaloes and two annas on cows and bulls, &c. Half rates are charged for calves. |
| South Malabar .. .. .. .. | 79 | 215 | Grass is cut and not grazed in this division. |
| Nilgiris .. .. .. .. .. | 7,420 | 8,200 | The maximum on non-privileged cattle, half on privileged cattle and (under special sanction), double the maximum on alien cattle. |
| North Coimbatore .. .. .. .. | 27,588 | 32,707 | Half rates on privileged and full rates on non-privileged cattle. |
| South Coimbatore .. .. .. .. | 6,286 | 7,378 | Do. do. |
| Madura .. .. .. .. .. .. | 3,075 | 2,856 | Varying rates within sanctioned rates. |
| Tinnevelly .. .. .. .. .. | 5,311 | 6,347 | Half rates on privileged and full rates on non-privileged cattle. |
| Total .. | 54,670 | 63,354 | |
| Grand Total .. | 2,66,891 | 3,28,293 | |

The increase was general in all districts except Gódávari, North Arcot and Madura. The decrease in these districts amounted to Rs. 1,204, Rs. 15,831 and Rs. 219, respectively. Compared with last year there was an increase in the Northern Circle of Rs. 30,688, in the Central of Rs. 22,030, and in the Southern of Rs. 8,684. The percentage of increase for each circle is 32, 19 and 16, respectively, or 23 for the Presidency. More than 50 per cent. of the increase in the *Northern Circle* accrued in the Kistna district and is attributed to the successful working of the parcellaire system of grazing. It is gratifying to observe that, although this scheme was novel to the ryots, there was comparative absence of complaint and a decrease in the number of cattle impounded notwithstanding a large increase in the area of the reserves. Special areas for goats and other cattle were selected during the year but have not as yet been definitely decided upon. In *Kurnool* the large increase of Rs. 7,176 was partly due to the introduction of grazing circles and partly to a portion of the revenue pertaining to the financial year 1895–96 being included, as grazing permits hold good up to the end of March in each year and not up to end of June. A satisfactory feature in the year's working is that the leasing system is in process of abolition. No blocks are closed to grazing except such as are under fire protection. The increase

of Rs. 2,311 in Ganjám is attributed to the fact that the collection of grazing fee has been rising steadily since its introduction in 1892–93. The increase of Rs. 1,318 in Vizagapatam is due to increased supervision and regulation in Sarvasiddhi range. It is noted that in the agency forests of this district grazing was confined to the cattle belonging to the hillmen. The increase of Rs. 2,586 in *Bellary* is accounted for by the larger area thrown open for grazing. The introduction of more systematic arrangements for the issue of grazing permits accounts for the increase of Rs. 2,444 in *Anantapur*. The decrease in Gódávari is due to the limitation of the number of cattle allowed to enter the reserves in the agency tracts and also to the fact that other cattle were taken to the forests for grazing under the pretence that they belonged to the Koyas.

In the *Central Circle* the large increase of Rs. 8,175 in Nellore is attributed partly to keen competition amongst the lessees of "Kanchas" (open grazing-grounds) and partly to the levy of small fees for grazing in Shekadas (village grazing-grounds) absorbed in reserves. It is noted that, as directed in Board's Proceedings, Forest Mis. No. 451, dated 4th April 1895, attempts are being made for the gradual abolition of leasing in favour of the permit system. The Nellore breed of cattle is famous and every encouragement is afforded to breeders by provision of grazing-grounds in reserved forests wherever this can be done without intrenching upon grazing areas necessary for agricultural cattle. In *Trichinopoly* grazing was leased out in the Padugai forests and allowed elsewhere under permits sold by Range officers. The increase in that district (Rs. 6,058), Cuddapah (Rs. 7,442), Salem (Rs. 4,510), Chingleput (Rs. 1,041) and South Arcot (Rs. 10,619) is due generally to better supervision and increase in the number of cattle for which permits were taken. The last-mentioned district (South Arcot) provides grazing-grounds for a very large number of cattle from the neighbouring Tanjore district. The decrease in North Arcot is explained by the statement that in the revenue of 1893–94 a large proportion of the collections of 1892–93 was included and that consequently the average of the two years' revenue should be taken as the normal annual revenue. This gives Rs. 26,725 which is slightly below the revenue (Rs. 26,951) realized during the year under report.

In the Southern Circle, the most noticeable increase occurred in North and South Coimbatore and in Tinnevelly. The large increase in North and South Coimbatore is attributed to the vigilance of the subordinates which resulted in permits being taken out for a larger number of cattle, many of which doubtless grazed free in the previous year. The Conservator remarks that grazing in the North Coimbatore division must be brought more under control than has been possible hitherto. The grazing arrangements in Tinnevelly appear to have been carefully considered. In this district a system of grazing in reserved forests was introduced by which alternate compartments were thrown open for cattle covered by the same permit, one for the first six months and the other for the second-half year, grazing in unreserved lands being permitted free. This system has been found to be popular and has contributed to the large increase of revenue in the year under report. It is said that it is in contemplation still to improve the system by dividing the area available in each taluk into three more or less equal areas situated so far as can conveniently be arranged in proximity to the villages whence cattle come to graze. This will allow each area a period of two years' rest. Under the present arrangements goats are excluded but no hardship is entailed thereby, as there is a large number of tanks in the district in the beds of which there is plenty of fodder available for free browsing.

The question of abolishing the distinction between privileged and non-privileged cattle was not disposed of by Government until after the close of the year.

Information showing the area of forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile during the year under review is given in appendix F.

37. *Grass-cutting and hay-making, Northern Circle.*—The only district in which grass cutting was undertaken to any extent was Bellary, where 223, 829 lbs. of dry grass were collected and supplied to the Commissariat Department. The cost of collection amounted to Rs. 1,231, while the receipts were Rs. 1,791. Permits for cutting and removing grass at 3 pies per head-load or at 5 annas per cart-load were issued realizing a revenue of Rs. 710. In Kistna 160 cubic feet of hay were collected at a cost of Rs. 6–15–0 and sold for Rs. 13–3–0.

*Central Circle.*—No experiments were made in this circle in hay-making. It is satisfactory to note that the ryots in the Cuddapah district are beginning to recognize the value, as fodder, of grass in reserved forests and in parts willingly pay for permission to cut and remove it.

*Southern Circle.*—In the *Nilgiris* grass was sold for Rs. 215, and in *South Canara* also there were sales. The amount realized has not been stated. In *Tinnevelly* the right to remove grass from the ghât forests was included in minor produce contracts while for removals from certain plain reserves permits were issued departmentally at 3 and 6 pies per head-load. The right to cut grass in a few of the plain reserves was leased out as usual.

(e) *Natural reproduction.*

38. Full notes are given in appendix G. and the following is a brief resumé.

The natural reproduction of Sâl (*Shorea robusta*) in *Ganjám* continues to be excellent. In *Vizagapatam* and *Gódávari* general reproduction in closed areas continues to be satisfactory; and in *Bellary* the result was on the whole poor, though date and palmyra in parts and coppice regrowth in felled compartments were coming on well. A fair crop of seedlings showed themselves in *Kurnool* in the fire-protected areas. In *Cuddapah* there was no improvement in the seeding of red sanders (*Pterocarpus santalinus*). *Hardwickia binata* and *Anogeissus latifolia* are the only two important trees which appear to regenerate themselves naturally from seed at all successfully. The growth generally from coppice was however good. In *South Arcot* except sandalwood reproduction from other species from seed and coppice continues encouraging. The natural reproduction from seed in *North Arcot*, *Salem* and *Madura* was unsatisfactory, except in specially-protected areas, though it came up well from coppice. In *Tinnevelly* regeneration of teak from coppice was good. A large number of sandalwood seedlings is reported to have sprung up and to thrive well in this district as also in *North Coimbatore*. Reproduction in *South Canara* is said on the whole to be improving. Bamboos have seeded generally in most districts and the reproduction is very satisfactory. Mr. Popert inspected the teak forests of the Anamalais (South Coimbatore district), Mudumalai and Beni (Nilgiri district) and submitted suggestions supplementing or modifying the systems of working adopted of late years. All these forests have been overworked in former times and little mature or sound teak remains. The teak reproduction is poor, but Mr. Popert is of opinion that the forests contain sufficient young growth to eventually form their chief peuplement.

(f) *Artificial reproduction.*

39. The following statement shows the area under plantations, topes and cultural operations together with the cost incurred during the period under report as compared with the figures of the preceding year :—

## Abstract H.—Plantations, topes and cultural operations in other areas.

| | Plantations. | | | | | | | | Topes. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Up to 1893-94. | | Added during | | | | Total. | | Up to 1893-94. | | Added during | |
| | | | 1893-94. | | 1894-95. | | | | | | 1893-94. | |
| | Area in acres. | Cost. | Area in acres. | Cost of areas in columns 2 and 4. | Area in acres. | Cost of areas in columns 2, 4 and 6. | Area in acres. | Cost. | Area in acres. | Cost. | Area in acres. | Cost of areas in columns 10 and 12. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Northern Circle .. .. .. | 865 | 34,281<br>(a)+ 126 | 114 | 6,338 | 641<br>(b) — 73 | 5,759 | 1,547 | 46,504 | 3,542 | 21,422<br>(a) — 18 | .. | 1,302 |
| Central ,, .. .. .. | 13,386 | 7,00,434<br>(a)—5,179 | 102 | 18,807 | 90 | 14,795 | 13,578 | 7,28,857 | 10,316 | 3,58,925<br>(a) —1,005 | (c) — 1,228 | 4,179 |
| Southern ,, .. .. .. | 6,623<br>(c) — 97 | 4,81,207<br>(a) — 721<br>(c)—35,844 | 209 | 13,619 | 377 | 12,744 | 7,112 | 4,71,005 | 14,534 | 61,891<br>(a) — 111 | 2 | 306 |
| Total .. | 20,777 | 11,74,304 | 425 | 38,764 | 1,035 | 33,298 | 22,237 | 12,46,366 | 28,392 | 4,41,104 | 1,226 | 5,787 |

| | Topes—*cont.*. | | | | Other areas. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Added during | | Total. | | Up to 1893-94. | | Added during | | | | Total. | |
| | 1894-95. | | | | | | 1893-94. | | 1894-95. | | | |
| | Area in acres. | Cost of areas in columns 10, 12 and 14. | Area in acres. | Cost. | Area in acres. | Cost. | Area in acres. | Cost of areas in columns 18 and 20. | Area in acres. | Cost of areas in columns 18, 20 and 22 | Area in acres. | Cost. |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Northern Circle .. .. .. | 4 | 1,322 | 3,546 | 24,028 | 456<br>(c) — 3 | 13,381<br>(a) — 356 | 261 | 1,679 | 78 | 1,882 | # 792 | 16,586 |
| Central ,, .. .. .. | (d)— 1,264 | 1,366 | 7,824 | 3,63,465 | 3,873<br>mls. 100 | 45,315<br>(a)+ 11 | 133 | 1,392 | 1,600 | 2,932 | 5,606<br>mls. 100 | 49,650 |
| Southern ,, .. .. .. | .. | 549 | 14,536 | 62,635 | 2,484 | 18,489<br>(a) — 710 | 431 | 1,742 | 603 | 1,397 | 3,518 | 20,918 |
| Total .. | — 1,260 | 3,237 | 25,906 | 4,50,128 | 6,810<br>mls. 100 | 76,130 | 825 | 4,813 | 2,281 | 6,211 | 9,916<br>mls. 100 | 87,154 |

(a) As now revised by the Collector. (b) By rectification of area. (c) Abandoned. (d) Transferred to other departments.

40. In *Ganjám* 73 acres were successfully planted with casuarina seedlings at an average cost of Rs. 44 per acre. An area of 6 acres was added to the casuarina plantation at Narsapur in *Gódávari* at an average cost of Rs. 84 per acre. In *Kistna* the work of planting is being concentrated on two blocks, viz., Gopivaripalam and Karlapalam, to be completed in a systematic manner; 46 acres were planted up with casuarina during the year. The reduction in the cost of casuarina planting in the Central Circle has been maintained and the average cost in future will not exceed Rs. 35 per acre. There were 90 acres added in *Nellore*. Out of 48,600 seedlings planted, 6,150 died and have since been replaced. The average cost per acre amounts to about Rs. 10. The seedlings in the old plantations planted in blanks round wells are promising. There were few casualties in the date plantation of Allipuram and Srîharikóta during the year, but the condition of the plantation at the former place was not satisfactory owing to attacks of caterpillars. This will never prove a success; no extension is contemplated and the expenditure will be reduced to a minimum. In Srîharikóta the number of trees has dwindled and the plantation has been abandoned. An area of 80 acres was planted out with 4,028 cashew plants, of which one-third perished. The surviving plants look vigorous and healthy.

In *Cuddapah* 13 acres of the Hasanapuram plantation were sown with palmyras with indifferent success; the soil is sand. In the *North Arcot* district 30 acres of the Vanivedu plantation were replanted with casuarina and blanks on other plantations restocked. The percentage of casualties is large in Viringipuram and Ammundi. Casuarina planting in this district, away from the sea coast, and where in the hot weather water is some distance below the level of the surface, is attended undoubtedly with difficulty.

In the *South Arcot* district 115 acres were planted up with casuarina at a cost of Rs. 9–0–6 per acre. This low rate was due to wider planting, to better supervision and timely rains. The casuarina seeds obtained from the Tenasserim Circle, Burma, germinated freely and the seedlings are reported to be in excellent condition. In *Tanjore* 41 acres were planted with casuarina at varying distances. The plants apparently thrive best in the portions planted 6′×6′ and there is little doubt that this or 9′×4′ will prove the most profitable distance. In these plantations on the sea coast where the soil is pure sand, close planting is advisable as being better able to withstand the strong winds. The increased shade afforded is also an advantage. An interesting experiment was made in the North Coimbatore division to foster sandalwood by dibbling in seeds in clumps of scrub after clearing the weed and then protecting from injury by cattle, &c., by roughly fencing with thorns. The experiment is reported to have been a success and should be continued.

In the *Nilgiri* district 77 acres were planted under the Badaga plantation scheme with *Acacia melanoxylon*, *Acacia dealbata* and *Eucalyptus rostrata*. The blanks in the previous year's plantation were also restocked. About 90 per cent. of the young plants are dead. The results so far have not been encouraging. The expenditure during the year only amounted to Rs. 938.

In *North Malabar* 12 acres were planted with teak round Begur camp and 5 acres in a Kurumber tuckle (shifting cultivation); 15 acres were also planted with blackwood. In the Kanoth range 35 acres with teak and 100 acres with bamboo (*Bambusa arundinacea*) of an old clearing were planted in June 1895. Some 400 acres were sown with jack and 100 acres with *caryota urens*. The sowings of jack are a complete success.

In *South Malabar* at *Nílambúr* 120 acres partially planted in the preceding year with teak and *Swietenia macrophylla* were completed.

In *South Canara* broad-cast sowings were undertaken in many reserves. Germination was good, but from various causes very many of the seedlings have since succumbed.

Particulars regarding plantations, cultural operations and experiments and exotics are given in the appendix.

41. *Topes.*—Attempts are being made to dispose of the topes not required by the department either by handing over to other departments or by sale. This process has not yet been completed in all districts, but where it has been determined what

should remain under the control of the department, the topes have been or are being brought under reservation. It is hoped this matter will receive the early attention of Collectors.

(g) *Communications and Buildings.*

42. The following statement shows the outlay on communications and buildings during the period under report as compared with the previous year :—

| | 1893-94. | 1894-95. |
|---|---|---|
| | RS. | RS. |
| Roads and bridges ... ... ... ... ... | 41,421 | 32,007 |
| Buildings ... ... ... ... ... ... | 34,229 | 34,143 |
| Other works ... ... ... ... ... ... | 3,604 | 3,263 |

The expenditure under all the heads was less than that incurred in the preceding year. There were not many new road works undertaken during the year. This was due to the submission of a general scheme for the development of forest roads referred to in paragraph 18 of G.O., No. 81, Revenue, dated 22nd January 1895. Proposals have since been received from two Conservators, but being based on old conditions they will be affected by the recent policy limiting reservation to areas exceeding one square mile. The matter will require reconsideration in the light of the eventual orders which the Government may be pleased to pass as to what reserves below one square mile should be retained and what abandoned.

The question of a scheme for construction of forest camps awaited the preparation and approval of a type design. The matter was pending with Conservators. A list of the chief roads and buildings is given in Appendix H.

In the *Northern Circle* a sum of Rs. 7,358 was spent on roads. A very large portion of this expenditure was incurred in *Kistna* and next to it in *Ganjám*. In the last-named district the new works were limited to inspection paths, of which 38 miles were made.

In *Kistna* 21 miles of new roads were constructed in addition to the execution of repairs to the existing ones. In *Kurnool* an old road has proved useless, the trace being too steep. This is to be regretted and betrays an absence of careful consideration before the project was undertaken. The work in *Bellary* consisted of the construction of a bridle-path along the ridge of north-east range in Sandúr leased forests for 5 miles and the construction of cart-tracks in VIII (*b*) compartment of Ramandrug. The former work is being closed under the Conservator's advice pending decision of the future of this portion of the forest, and the cost of the latter work should properly have been debited to the operations and not shown as a capital charge.

In the *Central Circle* there was an expenditure of Rs. 4,539 on roads. Three miles of useful new roads were constructed in the Cuddapah district and the maintenance of the old ones was attended to. In *South Arcot*, the Tindivanam Taluk Local Board was paid a contribution of Rs. 1,500 for the construction of a road from Chengam to Paramanandal (a distance of 4 miles) which connects the Tenmalai ghât road. The work in Salem consisted of a deviation to reduce gradients and the cost incurred was only Rs. 341.

In the *Southern Circle* the amount expended on roads was Rs. 20,110. There was a decrease under this head in Madura compared with the expenditure during last year. Three new works were executed including an inspection path. In *Tinnevelly* considerable expenditure was incurred on roads. The only new work of importance executed during the year was the Pápanásam road upon which a sum of Rs. 7,333 was spent. There were no new works in North and South Coimbatore and the progress in Nilgiris and North Malabar was inconsiderable.

The expenditure on buildings in the Northern Circle continued to be large. Much attention was paid to this subject in Vizagapatam where a range office, two bungalows, five rest-houses and six subordinates' residences were added to the previous list of buildings. In *Gódávari* two bungalows were constructed besides other small works, while in Kistna one rest-house and range camps at eight different places were built. The most important works executed in Kurnool were the construction of permanent stables and servants' quarters near the inspection bungalow at Atmakúr partially burnt in the previous year. Sundry works were executed also in Bellary.

In the *Central Circle* the expenditure on buildings was chiefly confined to repairs. A few rest-houses were however newly constructed in North and South Arcot and Salem. A rest-house was completed in the Chingleput district.

In the *Southern Circle* there were no works of importance except a new range office and quarters at Méttupálaiyam in South Coimbatore. A few rest-houses in Madura and Tinnevelly and sundry other works in North and South Malabar were also executed.

43. *Tramways.*—The statement in Appendix I gives the results of the working of tramways.

In *Nellore* the whole of $5\frac{3}{4}$ miles of tramway at Srîharikóta was made use of, but the actual outturn was less than last year by 334 tons. For some months the fuel waggons were under repair. The fuel extracted consisted also largely of "Sulli" (fagot-wood) bundles. This material is bulky and the same quantity cannot be loaded upon a waggon. The net loss up to the end of last forest year was decreased by Rs. 596 and the balance of Rs. 961 will doubtless be made good within a year or two. In the casuarina range also there was a decrease of 675 tons due to loss of time caused by the removal of tramway from the plantations where it worked in 1893–94 to the new year's site of working. The net gain on the tramway up to end of 30th June 1895 was Rs. 14,970–14–8.

The tramway in Cuddapah continued to work at a loss, as mentioned in previous reports; there is little prospect at all events for many years that the working will prove a financial success.

In *South Coimbatore* compared with the estimated cost of carting the earning of the tramway showed a loss of Rs. 1,743. The value of the tram cannot be fairly gauged by this comparison alone. Its construction has enabled the department to bring to market wood which would otherwise have had to lie and rot in the forests.

## CHAPTER V.

### YIELD AND WORKING.

44. The subjoined abstract shows the gross yield and outturn of timber and other produce during the year as compared with the results of the previous year:—

ABSTRACT I.—Comparative yield as per Forms Nos. 69, 72-A and 72-B.

| — | Timber (in cubic feet) including sandalwood. | | Fuel (in cubic feet). | | Bamboos (in number). | | Minor produce (gross value in rupees). | |
|---|---|---|---|---|---|---|---|---|
| | 1893–94. | 1894–95. | 1893–94. | 1894–95. | 1893–94. | 1894–95. | 1893–94. | 1894–95. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| By Government Agency .. | 291,554 | (*a*) 374,152 | 3,122,250 | 2,186,122 | 35,245 | 36,881 | 23,773 | 21,516 |
| By purchasers (including confiscations) .. .. | 2,734,778 | 2,364,873 | 9,061,738 | 9,839,061 | 25,198,215 | 29,716,807 | (*b*) 7,65,430 | (*b*) 8,58,986 |
| Free grants .. .. .. | 46,164 | 38,633 | 1,008 | 551 | 70,801 | 39,507 | * 458 | 568 |
| Total .. | 3,072,496 | 2,777,658 | 12,184,996 | 12,025,734 | 25,304,261 | 29,793,195 | * 7,89,661 | 8,81,070 |
| Increase or decrease in 1894–95 as compared with 1893–94 .. .. .. | .. | — 294,838 | .. | — 159,262 | .. | +4,488,934 | .. | + 91,409 |
| Percentage of increase or decrease over the previous year's total .. .. | .. | — 9·5 | .. | — 1·3 | .. | + 17·7 | .. | + 11·5 |

* Rs. 1,395 was shown in excess wrongly in the previous year's abstract.

(*a*) Includes 290 cubic feet, being excess found on re-measurement of timber and sandalwood collected and taken to depôt in previous years as per Form No. 70. (*b*) Includes grazing fees.

The variations are explained under the respective heads. The usual statement of average yield per square mile and comparison with previous year is omitted. It has not been found possible with any degree of accuracy to distinguish between the outturn from unreserved lands or lands unreserved during part of the year but placed under control at a later period, and from areas under special protection.

### *Section I.—Departmental operations.*

45. The number of trees felled (Form No. 68) and those converted into logs or scantlings during the year as compared with the previous year is shown in the following abstract:—

| Year. | Balance on hand at the beginning of 1894–95. | Number of trees felled during 1894–95. | Total. | Converted into logs, &c., during 1894–95. | Balance on hand at the end of 1894–95. |
|---|---|---|---|---|---|
| 1893–94 .. .. .. .. .. | 165 | 67,723 | 67,888 | 67,673 | (a) 207 |
| 1894–95 .. .. .. .. .. | 207 | 60,039 | 60,246 | 59,934 | 312 |

(a) Of the 215 trees shown as balance at the end of the year in the return for 1893–94, 8 trees are reported not to exist. The correct balance was therefore only 207 trees.

There was a large decrease in *Nellore* (Central Circle) where the felling of miscellaneous trees suitable for fuel was restricted owing to the existence of a large stock of casuarina wood on hand at the end of the previous year. The decrease in *Nellore* was, however, counterbalanced by the increase in *Bellary* where departmental cutting was undertaken during the year under the provisions of the working plan for the Sandúr leased forests. Trees capable of yielding timber were cut in Sub-compartments 9 (*b*) and 10 (*c*) of the Ramandrug range and converted into poles and rafters, as also teak poles in the north-east and the Donimalai ranges. A demand for casuarina poles from the gold mining companies and the Government Telegraph Department was met by felling 2,832 trees in the *North Arcot* district as against none in the previous year. In the *Southern Circle* the large decrease in *Nilgiris* consequent on a smaller area of compartments felled in the plantations was to some extent made up by the increase in *North Coimbatore* due to cutting a large number of mathi and other trees in the demarcation lines.

46. The following abstract shows the produce collected and disposed of departmentally in 1893–94 and 1894–95 :—

ABSTRACT J.—Produce collected and disposed of (Forms Nos. 69, 70 and 71).

| Produce collected. | During 1893–94. | | | During 1894–95. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Cost. | Average. | Quantity. | Cost. | Average. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. C. ft. | 287,940 | 71,512 | 0 4 0 | (a) 371,103 | 61,083 | 0 2 8 |
| Fuel .. .. ,, | 3,122,250 | 89,620 | 0 0 5 | 2,186,122 | 74,752 | 0 0 7 |
| Bamboos .. No. | 35,245 | 367 | 0 0 2 | 36,881 | 805 | 0 0 4 |
| Sandalwood .. C. ft. | 3,614 | 4,192 | 1 2 7 | (b) 3,049 | 3,218 | 1 0 11 |
| Minor produce .. Mds. | 24,582 | 11,967 | 0 7 9 | (c) 52,690 | 13,743 | 0 4 2 |
| Total .. | .. | 1,77,658 | .. | .. | 1,53,601 | .. |

| Produce disposed of. | During 1893–94. | | | During 1894–95. | | | Stock on 1st July 1894. | Stock on 30th June 1895. |
|---|---|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | (d) Quantity. | Value. | Average. | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | |
| Timber .. C. ft. | 291,008 | 1,95,164 | 0 10 9 | 364,055 | 1,93,930 | 0 8 6 | 154,772<br>(e)— 100<br>(f)— 7 | 1,61,713 |
| Fuel .. .. ,, | 2,578,316 | 1,44,644 | 0 0 11 | 2,246,201 | 1,30,258 | 0 0 11 | 1,116,305<br>(e)+ 100<br>(g) —45,290 | 1,011,036 |
| Bamboos .. No. | 34,240 | 2,122 | 0 1 0 | 42,633 | 3,041 | 0 1 1 | 7,694 | 1,942 |
| Sandalwood .. C. ft. | 2,379 | 23,548 | 9 14 4 | 3,140 | 30,599<br>(h)+10,970 | 13 3 9 | 2,479 | 2,388 |
| Minor produce .. Mds. | 56,368 | 23,773 | 0 6 9 | 29,106 | 21,516 | 0 11 10 | 14,979<br>(f) — 2 | 38,561 |
| Total .. | .. | 3,89,251 | .. | .. | 3,90,314 | .. | .. | .. |

(a) Includes 5 cubic feet found in excess in depôts as per Form No. 70.
(b) Do. 285 do. do. do. do.
(c) Do. 1 maund do. do. do.
(d) Includes that used departmentally, written off, &c., as per Forms Nos. 69 and 70.
(e) 100 cubic feet shown under timber in previous year's return have been converted into fuel.
(f) Shown in excess by mistake in 1893–94 report.
(g) Quantity on tank-beds in the Madura district omitted in the district return.
(h) Represents advance money received at the close of the year.

Compared with the collection of the preceding year the total quantity collected under timber, bamboos and minor produce shows an increase, while that under fuel and sandalwood shows a decrease. The increase under timber is noticeable, particularly in Bellary (Northern Circle), North Arcot (Central Circle), South Canara, North Malabar, Nilgiris and South Coimbatore (Southern Circle). The increase in Bellary and North Arcot is due to reasons explained in the preceding paragraph; for *South Canara* (which is principally under miscellaneous timber) and South Coimbatore explanations have not been afforded in the district reports. The increase in North Malabar is due to operations having been extended to the Peria Kanoth ranges, and that in *Nilgiris* to the felling of a large quantity of vengai in the Mudumalai ranges for supply to two contractors. These increases were somewhat counteracted by the decrease in Ganjám (Northern Circle) and Tinnevelly (Southern Circle) in which districts departmental operations were restricted to sale of standing trees in the former and by the absence of demand at remunerative rates for jungle wood in the latter district.

The decrease under fuel worked out by Government may be ascribed generally to the substitution of private for direct working and to the restriction of departmental fellings. In Gódávari, Kistna, Kurnool (Northern Circle), Nellore, North Arcot, South Arcot, Trichinopoly (Central Circle), Nilgiris, Madura and Tinnevelly (Southern Circle) there was a falling off which was somewhat made up by the increase in Vizagapatam, Bellary (Northern Circle), Cuddapah and Salem (Central Circle), *South Canara and South Coimbatore* (*Southern Circle*). The decrease in Gódávari is due to the substitution of the contract system for the departmental agency, that in Kistna to the revised rules under section 26 of the Forest Act, whereby ryots are allowed to take free of charge unclassified wood from unreserved lands for domestic and agricultural purposes. In Kurnool the decrease is accounted for by the cessation of work at Bairluti and the outturn of the Chelama fellings not having been measured up. In Nellore it is ascribed to the non-serviceability of fuel wagons for three months during the year and to a large stock of casuarina wood having been on hand at the end of the previous year. In North Arcot the large balance of 1893–94 had to be disposed of; this accounts for the short felling in the year under report. The decrease in South Arcot is attributed to the want of demand by the South Indian Railway for the mangrove-wood from the Chidambaram forests. The decrease in Trichinopoly is explained by the fact that in 1893–94, a considerable quantity of railway fuel on hand from previous years was for the first time brought to account. In Nilgiris the decrease is due to the smaller area felled over, and that in Tinnevelly, to the non-opening of a few departmental coupes, pending preparation of simple working plans. In Madura it is ascribed to restricted fellings. The increase in Vizagapatam is due to more careful supervision and that in Bellary to the working of the leased forests as already explained. In Cuddapah and Salem there was an increased demand for engine fuel. In South Canara Compartment No. 7 in Sabladi yielded a larger quantity than a compartment of equal area in 1893–94 and this circumstance, coupled with the yield of thinnings and uprooted trees in plantations, contributed to the increase. The increase in South Coimbatore has not been explained.

The increase under bamboos is slight and calls for no explanation. Under sandalwood the decrease occurred mainly in North Coimbatore, and it is due to the operations having been restricted to dead trees only.

Under minor produce a larger quantity of grass was collected in Bellary (Northern Circle) for supply to the Commissariat Department. The increase in Vizagapatam is only nominal and is due to variations in the method of calculation adopted by the District Forest-officer in showing the quantity of rellu grass in maunds. The collection of *Nux-vomica* and soapnuts in Nellore (Central Circle) was also much larger than in the previous year.

The quantity of timber disposed of during the year is in excess of the previous year. The amount realized is, however, less, the reason being that the sales during the year under report consisted of a larger quantity of miscellaneous timbers and a smaller quantity of more valuable species, such as teak, rosewood, &c. The increase occurred mainly in Ganjám, Bellary, Cuddapah, North Arcot, North Malabar, Nilgiris, South Coimbatore and Tinnevelly. Under fuel the total quantity disposed of shows a decrease on the whole, the decreases in Kurnool, Cuddapah, North Arcot, South Arcot,

Madura and Tinnevelly being partly counterbalanced by the increases in Vizagapatam, Kistna, Bellary, Salem, Trichinopoly, South Canara and South Coimbatore. The variations under disposals of bamboos are small and call for no special remark.

The quantity of minor produce disposed of during the year shows a large decrease as compared with the previous year, but the decrease is only nominal, as in the previous year 26,553 maunds (mostly of grass) used departmentally or written off as wastage, &c., were included in the quantity sold as against 1,313 maunds similarly treated in the returns of the year under report.

The cost of collection generally varies according to the distance, &c., from which the produce is removed. The increase during the year under fuel occurred in Kurnool, Bellary, Salem and Trichinopoly, and that under bamboos in Salem and South Coimbatore. The decrease in the average rate at which timber was disposed of during the year is due to diminished sales of more valuable woods, such as teak and rosewood.

47. The subjoined abstract shows the quantity and value of timber and other produce removed by consumers and purchasers as compared with the results of the previous year:—

ABSTRACT K.—Produce removed by permit-holders on seigniorage or otherwise (Form No. 72-A).

| | During 1893-94. | | | During 1894-95. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Amount of sales. | Average | Quantity. | Amount of sales. | Average. |
| *Northern Circle.* | | RS. | RS. A. P. | | RS. | RS. A. P. |
| Timber .. .. .. C. ft. | 1,843,750 | 2,15,256 | 0 1 10 | 1,535,510 | 1,20,765 | 0 1 3 |
| Firewood .. .. .. „ | 2,618,590 | 55,062 | 0 0 4 | 3,154,872 | 65,748 | 0 0 4 |
| Bamboos .. .. .. No. | 16,747,964 | 89,189 | 0 0 1 | 18,881,294 | 82,483 | 0 0 1 |
| Grass and grazing .. .. .. | .. | 96,831 | .. | .. | 1,27,568 | .. |
| Minor produce .. .. .. | .. | 1,24,427 | .. | .. | 1,54,067 | .. |
| Total .. | .. | 5,80,765 | .. | .. | 5,50,631 | .. |
| *Central Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 670,508 | 63,096 | 0 1 6 | 613,835 | 55,270 | 0 1 5 |
| Firewood .. .. .. „ | 3,382,984 | 1,16,633 | 0 0 6 | 3,376,442 | 1,37,123 | 0 0 8 |
| Bamboos .. .. .. No. | 7,029,103 | 81,149 | 0 0 2 | 9,303,855 | 67,209 | 0 0 2 |
| Grass and grazing .. .. .. | .. | 1,15,283 | .. | .. | 1,39,047 | .. |
| Minor produce .. .. .. .. | .. | 2,79,274 | .. | .. | 2,90,928 | .. |
| Total .. | .. | 6,55,435 | .. | .. | 6,89,577 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 175,290 | 36,999 | 0 3 5 | 168,053 | 25,936 | 0 2 6 |
| Firewood .. .. .. „ | 2,937,942 | 69,772 | 0 0 4 | 3,281,737 | 78,792 | 0 0 5 |
| Bamboos .. .. .. No. | 1,402,531 | 20,845 | 0 0 3 | 1,319,408 | 21,135 | 0 0 3 |
| Grass and grazing .. .. .. | .. | 55,142 | .. | .. | 62,882 | .. |
| Minor produce .. .. .. .. | .. | 93,597 | .. | .. | 84,020 | .. |
| Total .. | .. | 2,76,355 | .. | .. | 2,72,765 | .. |
| Presidency Total. Timber .. .. C. ft. | 2,689,548 | 3,15,351 | 0 1 11 | 2,317,398 | 2,01,971 | 0 1 5 |
| Presidency Total. Firewood .. „ | 8,999,516 | 2,41,467 | 0 0 5 | 9,813,051 | 2,81,663 | 0 0 6 |
| Presidency Total. Bamboos .. No. | 25,179,598 | 1,91,183 | 0 0 1 | 29,504,557 | 1,70,827 | 0 0 1 |
| Presidency Total. Grass and grazing .. | .. | 2,67,256 | .. | .. | 3,29,497 | .. |
| Presidency Total. Minor produce .. | .. | 4,97,298 | .. | .. | 5,29,015 | .. |
| Grand Total of sales, Rupees .. | .. | 15,12,555 | .. | .. | 15,12,973 | .. |

The quantity of timber removed by purchasers and consumers shows a diminution of 372,150 cubic feet. Under the rules issued under section 26 during the year ryots obtained free from unreserved lands a portion of this decrease; in addition, in some

districts the cubic contents of trees on darkhast lands which in former years would have been shown have to be deducted. Under the latest instructions issued by the Board * with reference to the control of unreserved lands the decrease now reported from this cause will not recur. A large decrease occurred also in Ganjám due to the cessation of demand for sleepers by the East Coast Railway.

* Board's Proceedings, Forest No. 594, dated 8th October 1895.

There is a considerable increase in the quantity of fuel extracted by consumers. Although this does not equal the decrease under Government working, there is no doubt if added to the actual free removals made by ryots since the introduction of the more liberal rules the total yield would increase that of 1893–94.

The total value of sales as compared with that of the previous year shows a net increase of Rs. 418 as shown in the margin. The decrease under timber occurred chiefly in the districts of Ganjám, explained above, Gódávari, Kistna, North Coimbatore and Madura. In Gódávari it is attributed to the absence of demand for timber of higher classes. The decrease in the other districts has not been explained in the district reports.

| | | RS. |
|---|---|---|
| Timber ... ... ... ... | — | 1,13,380 |
| Fuel ... ... ... ... | + | 40,196 |
| Bamboos ... ... ... | — | 20,356 |
| Grass and grazing ... ... | + | 62,241 |
| Minor produce .. ... ... | + | 31,717 |
| | + | 418 |

Under *fuel* the increase occurred principally in Kurnool, Cuddapah, North Arcot, South Arcot, Salem and South Canara. The increase in Cuddapah is attributed to the realization of high prices from dry firewood put up to auction in the Seshachellam reserve, while that in North Arcot is due to larger sales (from coupes) in the Palmanér and Gudiyáttam ranges to meet the demand from the Kolar Gold fields. In South Arcot larger revenue was derived from darkhast lands, while in Salem the opening of a greater number of coupes accounts for the increase. In South Canara the increase accrued from the leasing of the right to collect and remove firewood in certain areas. The increase in Kurnool and a decrease in Gódávari have not been explained. There was a decrease also in Trichinopoly due to a considerable falling off in the revenue from trees on darkhast lands in the Kulitali range.

Under *bamboos* the decrease occurs chiefly in Gódávari and North Arcot. In Gódávari permits were granted at reduced rates for dying bamboos. The decrease in North Arcot is but nominal, the previous year's figures included instalments due from contractors for the removals to be effected in the year under report. The increase under grass and grazing has already been explained in section (*d*) in Chapter IV.

Under minor produce the increase occurred in Kurnool, Bellary, Cuddapah, North Arcot and South Arcot. The increase in Kurnool is due partly to revenue from tangedu (*Cassia auriculata*) bark, partly to the transfer to "Forests" of the revenue derived from the lease of date trees and partly to better sales on the hills. In Bellary the increase resulted from leasing out the right to cut and remove tangedu bark and from keener competition in respect of amroy sales. In Cuddapah the increase was obtained from leasing out a larger area for cutting tangedu bark. The increase in North Arcot is due partly to reasons explained under bamboos and partly to several small sales having attracted a large number of bidders. The increase in South Arcot is only nominal as a large amount received in advance at the end of the year for produce to be removed in the current year stands included in the amount of sales. There were also decreases in certain districts, particularly in Nellore, Salem, Trichinopoly, South Canara and North Coimbatore. In Nellore the fall in the sales is attributed to the poor crop of tangedu bark in the taluks of Kandukur and Kanigiri, and that in Salem chiefly to the exclusion of palmyras from the minor produce contract and also to the separate sale of minor produce on public porambokes by the Revenue Department. In Trichinopoly it is ascribed to the credit to land revenue of tree-tax collected during the year, and in South Canara to a large portion of the sale amount having been received as an advance in the previous year. The decrease in North Coimbatore has not been accounted for.

48. The following is a statement showing the comparative cost of departmental and private working and the net profit derived from each class of produce under each system :—

| Items. | Measure. | Quantity collected (Forms Nos. 69, 70 and 72-A). | Amount of sale-proceeds (Forms Nos. 71 and 72-A). | Add or deduct increase or decrease in value of stock in hand. | Net financial result (column 4 + or − column 5). |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Departmental Working— | | | Rs. | Rs. | Rs. |
| Timber | Cubic feet. | 371,103 | 1,93,930 | − 5,277 | 1,88,653 |
| Fuel | Do. | 2,186,122 | 1,30,258 | + 4,407 | 1,34,665 |
| Bamboos | Number. | 36,881 | 3,041 | + 139 | 3,180 |
| Sandalwood | Cubic feet. | 3,049 | 41,569 | − 5,396 | 36,173 |
| Minor produce | Maunds. | 52,690 | 21,516 | + 71 | 21,587 |
| Private Working— | | | | | |
| Timber | Cubic feet. | 2,317,398 | 2,01,971 | .. | 2,01,971 |
| Fuel | Do. | 9,813,051 | 2,81,663 | .. | 2,81,663 |
| Bamboos | Number. | 29,504,557 | 1,70,827 | .. | 1,70,827 |
| Grazing | .. | .. | 3,29,497 | .. | 3,29,497 |
| Minor produce | .. | .. | 5,29,015 | .. | 5,29,015 |

| Items. | Charges (Form No. 64). | | | Net profit or loss (column 6 — column 9). | Rate of net profit (column 10÷column 3) per measure in column 2. |
|---|---|---|---|---|---|
| | A. Conservancy and Works. | B. Establishment and Contingencies. | Total. | | |
| | 7 | 8 | 9 | 10 | 11 |
| Departmental Working— | Rs. | Rs. | Rs. | Rs. | Rs. A. P. |
| Timber | 61,088 | 41,367 | 1,02,450 | + 86,203 | + 0 3 9 |
| Fuel | 74,752 | 33,256 | 1,08,008 | + 26,657 | + 0 0 2 |
| Bamboos | 805 | 649 | 1,454 | + 1,726 | + 0 0 9 |
| Sandalwood | 3,218 | 7,300 | 10,518 | + 25,655 | + 8 6 7 |
| Minor produce | 13,743 | 5,678 | 19,421 | + 2,166 | + 0 0 8 |
| Private Working— | | | | | |
| Timber | 11,003 | 34,554 | 45,557 | + 1,56,414 | + 0 1 1 |
| Fuel | 15,347 | 48,181 | 63,528 | + 2,18,135 | + 0 0 4 |
| Bamboos | 9,307 | 29,201 | 38,508 | + 1,32,319 | + 0 0 1 |
| Grazing | 17,951 | 56,292 | 74,243 | + 2,55,254 | .. |
| Minor produce | 28,821 | 90,522 | 1,19,343 | + 4,09,672 | .. |

Note.—In column 7, the actual expenditure as per Form No. 64 has been entered under the several heads of I (Departmental Working) while the total expenditure under II has been apportioned proportionately to the amount of sales realised under the several heads of II. "Receipts." The charges under "B. Establishment and Contingencies" have been arrived at as follows : from the total amount of expenditure under B. Establishment the cost of Special Forest Settlement-officers and Settlement establishments including travelling allowance, &c., has been deducted, and out of the remainder one-half has been left out as usual as being debitable to "formation, protection and improvement of forests." The other half has been allotted to the several heads of departmental and private workings in proportion to the total amount of sales (column 4) and expenditure under "A. Conservancy and Works (column 7) under the respective heads."

It will be observed that the profit under departmental working of timber and bamboos is much greater than that realised for removals by private agency. Under fuel profit under departmental working would have equalled that under private working had the cost of collection not been higher for reasons explained in paragraph 46 *supra*.

Compared with the previous year the net profit upon timber shows an increase of one anna and four pies and upon fuel of four pies. These results are due to the change in the system of apportioning the charges under "Establishments." Sandalwood also shows an enhanced profit; this is only nominal, as the receipts include a sum of Rs. 10,970, part-payment for wood not yet delivered.

49. The report upon the working of minor produce referred to in paragraph 21 in the Government review of last year has been submitted. It was decided to await further experience before initiating alterations. The system of collection must naturally vary with the different conditions of districts.

50. The sales of confiscated produce during the year under report as compared with those of the previous year are recorded in the subjoined abstract :—

ABSTRACT L.—Confiscation.

| | During 1893-94. | | | During 1894-95. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | Quantity. | Value. | Average. |
| *Northern Circle.* | | RS. | RS. A. P. | | RS. | RS. A. P. |
| Timber .. .. .. C. ft. | 15,756 | 6,077 | 0 6 2 | 34,412 | 5,148 | 0 2 5 |
| Firewood .. .. .. ,, | 31,643 | 787 | 0 0 5 | 5,714 | 176 | 0 0 6 |
| Bamboos .. .. .. No. | 10,531 | 55 | 0 0 1 | 207,140 | 2,517 | 0 0 2 |
| Minor produce .. Money value. | .. | 123 | .. | .. | 57 | .. |
| Total .. | .. | 7,042 | .. | .. | 7,898 | .. |
| *Central Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 6,937 | 2,178 | 0 5 0 | 6,975 | 1,054 | 0 2 5 |
| Firewood .. .. .. ,, | 13,772 | 888 | 0 1 0 | 7,292 | 372 | 0 0 10 |
| Bamboos .. .. .. No. | 5,662 | 85 | 0 0 3 | 2,196 | 84 | 0 0 7 |
| Minor produce Money value. | .. | 245 | .. | .. | 118 | .. |
| Total .. | .. | 3,396 | .. | .. | 1,628 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 22,537 | 2,662 | 0 1 11 | 6,088 | 2,626 | 0 6 11 |
| Firewood .. .. .. ,, | 16,807 | 265 | 0 0 3 | 13,004 | 695 | 0 0 10 |
| Bamboos .. .. .. No. | 2,424 | 34 | 0 0 3 | 2,914 | 73 | 0 0 5 |
| Minor produce .. Money value. | .. | 508 | .. | .. | 299 | .. |
| Total .. | .. | 3,469 | .. | .. | 3,693 | .. |
| *Presidency Total.* | | | | | | |
| Timber .. .. .. C. ft. | 45,230 | 10,917 | 0 3 10 | 47,475 | 8,828 | 0 2 11 |
| Firewood .. .. .. ,, | 62,222 | 1,940 | 0 0 6 | 26,010 | 1,243 | 0 0 9 |
| Bamboos .. .. .. No. | 18,617 | 174 | 0 0 2 | 212,250 | 2,674 | 0 0 2 |
| Minor produce Money value. | .. | 876 | .. | .. | 474 | .. |
| Grand Total .. | .. | 13,907 | .. | .. | 13,219 | .. |

The amount of sales under this head shows only a small decrease of Rs. 688.

51. The following statement shows the quantities of timber and other produce removed on free permits during the year under report:—

ABSTRACT M.—Free grants.

| Districts. | Timber. | Firewood. | Bamboos. | Minor produce. | Total money value. |
|---|---|---|---|---|---|
| *Northern Circle.* | C. FT. | C. FT. | NO. | RS. | RS. |
| Gódávari .. .. .. .. .. .. | .. | .. | 400 | .. | 2 |
| Kistna .. .. .. .. .. .. .. | 5,340 | .. | .. | .. | 445 |
| Kurnool .. .. .. .. .. .. .. | 2,150 | .. | 5,375 | 13 | 174 |
| Bellary .. .. .. .. .. .. .. | 7,978 | .. | 2,730 | 79 | 449 |
| Anantapur .. .. .. .. .. .. | 80 | .. | .. | .. | 10 |
| Total .. | 15,548 | .. | 8,505 | 92 | 1,080 |
| Free grants of previous year .. .. .. .. | 21,840 | .. | 45,200 | * 346 | 1,724 |
| *Central Circle.* | | | | | |
| Cuddapah .. .. .. .. .. .. | 8,800 | .. | 4,950 | 318 | 930 |
| Nellore .. .. .. .. .. .. .. | 2,660 | .. | .. | 34 | 200 |
| Chingleput .. .. .. .. .. .. | .. | 76 | 20 | .. | 6 |
| North Arcot .. .. .. .. .. .. | 1,800 | .. | 940 | 42 | 423 |
| South Arcot .. .. .. .. .. .. | 2,100 | 400 | .. | .. | 156 |
| Salem .. .. .. .. .. .. .. | 604 | .. | 4,684 | .. | 61 |
| Trichinopoly .. .. .. .. .. .. | 2,290 | 40 | 207 | .. | 484 |
| Total .. | 18,254 | 516 | 10,801 | 394 | 2,260 |
| Free grants of previous year .. .. .. .. | 20,516 | 626 | 16,901 | 40 | 2,506 |
| *Southern Circle.* | | | | | |
| North Malabar .. .. .. .. .. .. | 3,262 | .. | 13,276 | 10 | 720 |
| Nilgiris .. .. .. .. .. .. .. | 1,524 | 35 | 6,925 | 72 | 285 |
| Tinnevelly .. .. .. .. .. .. | 45 | .. | .. | .. | 11 |
| Total .. | 4,831 | 35 | 20,201 | 82 | 1,016 |
| Free grants of previous year .. .. .. .. | 3,808 | 382 | 8,700 | 72 | 662 |
| Total free grants for 1894-95 .. | 38,633 | 551 | 39,507 | 568 | 4,356 |
| Total free grants for 1893-94 .. | 46,164 | 1,008 | 70,801 | * 458 | 4,892 |

* Rs. 1,395 was shown in excess wrongly in the previous year's statement.

No produce was granted on free permit in Ganjám, Vizagapatam, Tanjore, Madura, North and South Coimbatore, South Malabar and South Canara. The net results of the other districts show a decrease as compared with the preceding year. In most of these districts free grants were made for rebuilding houses destroyed by fire. In North Malabar and Tinnevelly they were reported to be made to ryots for agricultural implements, and in Nilgiris to Todas and indigent Badagas for building huts, houses or temples. In Bellary and Cuddapah free permits were issued to ryots for removals of tangedu leaves for purposes of manure.

To encourage ryots to take up irrigated land in Cuddapah permission was also granted to remove leaves from reserves free. Towards the close of the year the concession had been little availed of and it has been decided to extend the permission for another two years.

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## CHAPTER VI.

### FINANCIAL RESULTS.

52. The following statement shows the revenue and expenditure in each circle for the year under report as compared with the corresponding figures of the previous year :—

| Items. | Circles. | Forest year, 1893-94. | Forest year, 1894-95. |
|---|---|---|---|
| | | Rs. | Rs. |
| Revenue .. .. | Northern .. .. .. | 6,04,314 | 6,09,343 |
| | Central .. .. .. | 7,76,451 | 7,97,546 |
| | Southern .. .. .. | 5,62,950 | 5,70,293 |
| | Total .. | 19,43,715 | 19,77,182 |
| *Expenditure.* | | | |
| A.—Conservancy and Works. | Northern .. .. .. | 1,25,402 | 1,51,159 |
| | Central .. .. .. | 2,82,704 | 2,72,664 |
| | Southern .. .. .. | 2,73,634 | 2,85,779 |
| | Total .. | 6,81,740 | 7,09,602 |
| B.—Establishment .. | Northern .. .. .. | 2,01,317 | 2,18,711 |
| | Central .. .. .. | 2,52,572 | 2,71,374 |
| | Southern .. .. .. | 2,32,782 | 2,54,611 |
| | Total .. | 6,86,671 | 7,44,696 |
| Total of Expenditure .. | Northern .. .. .. | 3,26,719 | 3,69,870 |
| | Central .. .. .. | 5,35,276 | 5,44,038 |
| | Southern .. .. .. | 5,06,416 | 5,40,390 |
| | Total .. | 13,68,411 | 14,54,298 |
| Net result .. .. | Northern .. .. .. | + 2,77,595 | + 2,39,473 |
| | Central .. .. .. | + 2,41,175 | + 2,53,508 |
| | Southern .. .. .. | + 56,534 | + 29,903 |
| | Total .. | + 5,75,304 | + 5,22,884 |

NOTE.—These figures do not agree with the details in Form 64, as the Accountant-General has erroneously debited the Southern Circle instead of the Central Circle with the cost of the Survey of India Party.

The total receipts for the Presidency exceeded those of the previous year by Rs. 33,467. From the totals for the Presidency in the Accountant-General's Form No. 64 appended to the report, it will be seen that the increase under departmental working accrued principally from sandalwood and under V, "Miscellaneous." There was a large decrease during the year under II (*a*) "Timber" owing chiefly to the cessation of the demand from the East Coast Railway for sleepers. This has been nearly counterbalanced by the increased receipts from firewood, bamboos, grazing and minor produce.

The total expenditure under A. " Conservancy and Works " for all the circles exceeded that of the previous year by Rs. 27,862. The increase occurred mostly in the Northern Circle, chiefly under budget heads I (*b*) " firewood," VI (*a*) " purchase of cattle," VIII (*f*) " other works," owing respectively to (1) departmental cutting of firewood in *Bellary*, (2) purchase of new elephants and (3) employment of a larger staff of temporary watchmen, &c., in connection with the new grazing scheme in *Kistna*. The large decrease in the total expenditure of the *Central Circle* is mainly due to the item of Rs. 58,920 on account of the cost of forest surveys by the Survey of India Party having been erroneously debited by the Accountant-General to the Southern, instead of to the Central Circle in which the Survey Party continued to work during the year. For the same reason and owing to the payment of mesne profits to the Zemindar of Singampati in the Tinnevelly district (in the Singampatti Forest Appeal Case finally disposed of by the Privy Council in favour of the zemindar), the expenditure in the Southern Circle shows a large increase.

The total expenditure under B. " Establishment " also increased by Rs. 58,025 in all the circles due mainly to the promotion of certain superior officers, to four new Assistant Conservators who arrived from England in December 1893 having drawn pay for the full year and to the payment of higher rates of exchange compensation allowance. The total expenditure both under A and B during the year amounted to 73·5 per cent. of the gross revenue against 70 per cent. in the previous year. The net surplus for the year under report is Rs. 5,22,884 against Rs. 5,75,304 for the previous year. Towards this surplus *Cuddapah*, *North Arcot* and *Salem* in the Central Circle contributed each 21, 17 and 15 per cent., and *Kurnool* and *Kistna* in the Northern Circle 18 and 14 per cent., respectively.

## CHAPTER VII.

### General Remarks.

53. *Dehra Dun Forest School.*—Of the four subordinates deputed in June 1894 to the Forest School, one sent from the Northern Circle was obliged to return owing to temporary insanity. Only two men were sent in June 1895 both from the Southern Circle, one of them going as a private student. As regards the smaller number of officers deputed to the school, it may be explained that it is difficult to find subordinates answering to the requirements of the rules of admission as regards service and age. Further, the present stagnation of promotion in the lower grades consequent on the delay in obtaining sanction for augmenting the staff, has also been an impediment. For this reason the Conservator, Central Circle, did not consider it expedient to send any men at all last year. There are already several men with Dehra Dun certificates in each circle awaiting promotion to the Rangers' class, and there are others in the lower grades of Rangers without any definite prospects of further advancement.

The total number of trained men in the department at the end of the year was 67 ; of these 15 are in the Northern, 23 in the Central and 29 in the Southern Circle. Of the trained men five are extra Assistant Conservators, three Sub-Assistant Conservators (old scale), thirty-three Rangers, and twenty-six Deputy Rangers.

54. *Conduct of establishment.*—The conduct of the subordinate executive staff was on the whole good. In the *Northern Circle* a Ranger in Kurnool was reduced in connection with the forest scandals in that district, as also a Forester in Bellary for bad work. A Ranger in Ganjám resigned his appointment. In the *Central Circle* two Rangers in Cuddapah, two Foresters in Salem and a Forester in Chingleput were reduced ; and one Forester in Salem resigned. Three Foresters (one in each of the districts of North Arcot, South Arcot and Salem) were invalided. The services of a Temporary Forester in Trichinopoly had to be dispensed with. Three Foresters (one in each of the districts of Cuddapah, North Arcot and South Arcot), and a fourth on the temporary staff in the first-named district were dismissed the service. In the *Southern Circle* one Ranger

was temporarily reduced for a month and a Temporary Supervisor reduced to a lower grade. One Forester resigned his post and the services of an Acting Forester and a Temporary Supervisor were dispensed with.

The conduct of the subordinate protective staff was in several districts far from satisfactory. A large number of guards, watchers and tannadars were convicted for extortion, and in consequence dismissed the service. A few were also reduced or suspended for neglect of duty.

55. *Health of the establishment.*—In the *Northern Circle* the year was as usual unhealthy in Ganjám and Vizagapatam, and most of the establishment suffered from fever. It was very prevalent also in Gódávari and there were several deaths among the staff in this district as well as in Vizagapatam. In the other districts of the circle the health of the establishment was fairly good. In the *Central Circle* the health was generally good, except in the Salem district and in the Javadis and portions of the Chandragiri range of the North Arcot district. In the *Southern Circle* the health of the establishment was not satisfactory in *South Coimbatore* and *South Canara*, while in *Madura*, *North* and *South Malabar* and in *Mudumalai* and *Segur ranges* in *Nilgiris* fever was very prevalent and proved fatal in the case of a few subordinates.

56. *Elephants.*—In the *Northern Circle* four elephants were purchased during the year at the Sonepur Fair. These together with the tusker attached to the Direction office maintained good health. In the *Southern Circle* eleven elephants were captured during the year. Of these, two were sold, four died, and the surviving five are reported to be in good condition. Two elephants were purchased during the year, one for Nilgiris and another for South Canara. There were fifty elephants on the list in this circle at the close of the year and the majority of these is still too young for work. The total number of elephants remaining on the list in the Northern and Southern Circles is 55.

57. *Service books.*—Service books are reported to have been verified in all the districts except Vizagapatam, Gódávari, South Arcot, North Coimbatore, North Malabar and South Canara. In Vizagapatam, however, the Acting Conservator reports that the required verification was made after the close of the year. As regards the other districts, no information has been furnished by the Collectors concerned.

58. *Inventory of valuable stock.*—The Collectors of Vizagapatam, Kistna, Kurnool and South Arcot report that the stock registers were kept to date. In Bellary the register is said to be maintained in the old code form. The Collectors of other districts have not furnished information on the subject.

59. *Rain-gauges.*—The results of rain-gauge readings were recorded in Kistna, South Arcot, South Coimbatore, North Malabar and South Canara.

60. *Work done by the Superior Staff.*—The opinions of the Conservators are as follows:—

Mr. Hooper, the Acting Conservator says:—

"He had no means of judging of Mr. Battie's work in Ganjám and that Mr. Jackson in Gódávari has had his attention devoted especially to agency reports and settlement enquiries. Mr. Thornton in Vizagapatam has worked energetically and with considerable skill and would have achieved better success had he taken advice beforehand in important matters. The opinion of the Collector of Kistna regarding Mr. Lushington's zeal and perseverance and the cordial way he is ready to co-operate with his Conservator is fully endorsed. Mr Lodge in Kurnool has worked energetically and Mr. Alwar Chetti in Bellary gave satisfaction to the Collector. Mr. Murray's work in Anantapur was chiefly confined to selection and settlement of reserves."

*Central Circle.*—Mr. Popert, the Conservator says:—

"He has every reason to state that all District Forest-officers have done their best. Mr. Brasier in Salem district, Mr. Porter in Trichinopoly and Mr. McIntosh in Cuddapah have worked particularly well. The former has had hard work with reservation and in putting down sandalwood thefts. Mr. Porter has made good progress with the selection of proposed reserves; Cuddapah is a very extensive charge, and Mr. McIntosh deserves credit for the progress in disposing of old blocks selected for reservation and for the improvement in the minor forest produce revenue."

*Southern Circle.*—Mr. Gass, the Acting Conservator, was unable to make any comments having assumed charge of the circle after the close of the year, but quotes the following from the notes of Mr. Cherry, the permanent Conservator :—

"Allowing for the insufficiency of establishment, I consider that all the districts have shown good progress, with the exception perhaps of Madura, in which matters are somewhat at a stand still owing to the new District Forest-officer being almost swamped by the arrears of office work that have accumulated.

"All the District Forest-officers and the Assistants not in charge have generally worked well and at their best.

"Mr. Peake has not had good health, and in other respects I am afraid is not strong enough for a large district.

"Mr. Marshall has at times been somewhat impatient of control owing to his desire to push on work faster than ways and means will allow."

As regards Mr. Foulkes' work in South Canara, the Collector writes :—

"This is the record of another year's steady hard work, the result of which is visible in improvements in all directions."

The Board sees no reason to differ from the opinions recorded by the Conservators with regard to most of the officers, but Mr. Peake seems to have had serious difficulties to contend with in Madura, and no action is being taken with reference to Mr. Cherry's remark regarding his not being strong enough for so large a charge pending receipt of a report from Mr. Gass, who recently thoroughly inspected the district when acting as Conservator during Mr. Peet's absence on leave.

# APPENDIX A.

## FOREST Settlement.

### Particulars of balance of lands under settlement.

| District. | Total number and area of blocks brought under settlement up to end of 1894-95. | | Total number and area of blocks constituted finally as reserved forests up to end of 1894-95. | | Balance at end of 1894-95. | |
|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Northern Circle.* | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| Ganjám | 70 | 576 | 18 | 136 | 52 | 440 |
| Vizagapatam | 27; *a*+ 1 | 303; *b*— 2 | 15 | 58 | 13 | 243 |
| Gódávari | 77 | 1,001; *a*+ 2; *b*— 2 | 55 | 521 | 22 | 480 |
| Kistna | 125; *a*+ 12 | 798; *a*— 3; *b*— 1 | 79; *a*+ 4 | 645; *a* — 3 | 54 | 152 |
| Kurnool | 46 | 2,099; *a*— 2 | 16 | 1,738 | 30 | 359 |
| Bellary | 136; *d*— 2; *a*— 6 | 501; *b*— 13; *c*— 2; *d*— 2 | 92; *a*— 1 | 360 | 37 | 124 |
| Anantapur | 77; *e*+ 2; *a*+ 3 | 513; *e*+ 2; *b*— 2 | 57; *a*+ 3 | 380 | 22 | 133 |
| Total | 568 | 5,766 | 338 | 3,835 | 230 | 1,931 |
| *Central Circle.* | | | | | | |
| Cuddapah | 157; *a*+ 5 | 2,312; *a*— 23; *a*+ 9; *f*— 218 | 116; *a*+ 5 | 1,241; *a* + 9 | 41 | 830 |
| Nellore | 161 | 638; *b*— 2; *c*— 2 | 121 | 417 | 40 | 217 |
| Chingleput | 213; *a*— 3 | 227; *b*— 1; *c*— 1 | 174; *a*+ 1 | 197 | 35 | 28 |
| North Arcot | 143 | 1,091; *c*— 1 | 113 | 967; *c*— 1 | 30 | 124 |
| South Arcot | 217; *c*— 4 | 866; *b*— 12; *c*— 5 | 122 | 464 | 91 | 385 |
| Salem | 159 | 1,269; *a*+ 4; *b*— 15 | 120 | 1,094; *a*+ 6; *a*— 11 | 39 | 169 |
| Trichinopoly | 101; *c*— 19 | 204; *b*— 1; *c*— 5 | 74 | 192 | 8 | 6 |
| Tanjore | 21 | 19 | 21 | 19 | .. | .. |
| Total | 1,151 | 6,353 | 867 | 4,594 | 284 | 1,759 |
| *Southern Circle.* | | | | | | |
| South Canara | 74 | 438 | 27 | 114 | 47 | 324 |
| North Malabar | 22 | 274; *a*— 8; *f*+ 11 | 8; *a*+ 2 | 151 | 12 | 126 |
| South Malabar | 28 | 299 | 6 | 39 | 22 | 260 |
| Nilgiris | 182 | 357 | 144 | 355 | 38 | 2 |
| North Coimbatore | 82; *a*— 1; *c*— 1 | 1,651 | 60; *a*— 1 | 859 | 21 | 792 |
| South Coimbatore | 14; *c*— 1 | 574; *c*— 4 | 10 | 566 | 3 | 4 |
| Madura | 176; *a*+ 6 | 639; *a*+ 1; *c*— 1 | 127 | 542 | 55 | 97 |
| Tinnevelly | 63 | 428; *g* 1 | 39 | 410; *g* 1 | 24 | 18 |
| Total | 644 | 4,660 | 422 | 3,037 | 222 | 1,628 |
| Grand Total | 2,363 | 16,779 | 1,627 | 11,466 | 736 | 5,318 |

*a*. Rectification. *b*. At settlement. *c*. Unreserved. *d*. Transferred to Anantapur district.
*e*. Transferred from Bellary district. *f*. Wrongly shown or omitted in previous year's return.
*g*. By rounding off fractions.

# APPENDIX A.

## Forest Settlement—*cont.*

### Particulars of balance of lands under settlement—*cont.*

| District. | Classification of balance in columns 6 and 7. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Settled and reported on. | | | | | | | | Settled, but not reported on. | | Settlement proceeding. | |
| | Notified under section 16 during 1894–95, but reservation having effected only after 30th June 1895. | | With Board or Government awaiting publication of notification under section 16. | | Returned by the Board for revision and remaining either with Collector, District Forest-officer or Settlement-officer. | | Total settled and reported on. | | | | | |
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| Ganjám .. .. | .. | .. | .. | .. | 19 | 344 | 19 | 344 | 18 | 72 | 20 | 24 |
| Vizagapatam .. .. | 2 | 8 | 4 | 59 | .. | .. | 6 | 67 | 2 | 11 | 5 | 165 |
| Gódávari .. .. | 2 | 5 | 6 | 112 | 2 | 27 | 10 | 144 | 2 | 21 | 10 | 315 |
| Kistna .. .. .. | 2 | 2 | 12 | 10 | 1 | 8 | 15 | 20 | 9 | 17 | 30 | 115 |
| Kurnool .. .. | 1 | 1 | 2 | 7 | .. | .. | 3 | 8 | 7 | 68 | 20 | 283 |
| Bellary .. .. | 11 | 40 | 14 | 47 | 6 | 15 | 31 | 102 | 4 | 20 | 2 | 2 |
| Anantapur .. .. | 2 | 15 | 3 | 37 | .. | .. | 5 | 52 | .. | .. | 17 | 81 |
| Total .. | 20 | 71 | 41 | 272 | 28 | 394 | 89 | 737 | 37 | 209 | 104 | 985 |
| *Central Circle.* | | | | | | | | | | | | |
| Cuddapah .. .. | 6 | 237 | 8 | 180 | 1 | 14 | 15 | 431 | 1 | 73 | 25 | 326 |
| Nellore .. .. .. | 2 | 2 | 16 | 109 | .. | .. | 18 | 111 | 6 | 61 | 16 | 45 |
| Chingleput .. .. | .. | .. | 15 | 7 | 5 | 4 | 20 | 11 | 12 | 16 | 3 | 1 |
| North Arcot .. .. | 1 | 2 | 2 | 5 | 2 | 19 | 5 | 26 | 7 | 26 | 18 | 72 |
| South Arcot .. .. | 5 | 34 | 33 | 44 | 2 | 30 | 40 | 108 | 39 | 252 | 12 | 25 |
| Salem .. .. .. | 2 | 11 | 11 | 58 | .. | .. | 13 | 69 | 7 | 29 | 19 | 71 |
| Trichinopoly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 | 3 | 1 | 3 |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 16 | 286 | 85 | 403 | 10 | 67 | 111 | 756 | 79 | 460 | 94 | 543 |
| *Southern Circle.* | | | | | | | | | | | | |
| South Canara .. .. | .. | .. | 5 | 12 | .. | .. | 5 | 12 | 3 | 21 | 39 | 291 |
| North Malabar .. | 1 | 1 | .. | .. | .. | .. | 1 | 1 | 3 | 109 | 8 | 16 |
| South Malabar .. | .. | .. | .. | .. | .. | .. | .. | .. | 17 | 259 | 5 | 1 |
| Nilgiris .. .. | .. | .. | 5 | 2 | .. | .. | 5 | 2 | .. | .. | 33 | .. |
| North Coimbatore .. | .. | .. | 7 | 318 | 1 | 212 | 8 | 530 | 2 | 1 | 11 | 261 |
| South Coimbatore .. | .. | .. | .. | .. | 3 | 4 | 3 | 4 | .. | .. | .. | .. |
| Madura .. .. .. | 1 | 3 | 2 | 2 | 9 | 21 | 12 | 26 | 43 | 71 | .. | .. |
| Tinnevelly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 24 | 18 |
| Total .. | 2 | 4 | 19 | 334 | 13 | 237 | 34 | 575 | 68 | 461 | 120 | 587 |
| Grand Total .. | 33 | 361 | 145 | 1,009 | 51 | 698 | 234 | 2,068 | 184 | 1,130 | 318 | 2,115 |

# APPENDIX A.

## Forest Settlement—*cont.*

### Particulars of balance of lands under settlement—*cont.*

| District. | Of lands notified under section 4 in the year. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1884–85. | | 1885–86. | | 1886–87. | | 1887–88. | | 1888–89. | | 1889–90. | | 1890–91. | | 1891–92. | | 1892–93. | | 1893–94. | | 1894–95. | |
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 20 | 21 | 22. | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| *Northern Circle.* | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. |
| Ganjám .. | 21 | 376 | 3 | 20 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 14 | 25 | 11 | 14 | 2 | 3 |
| Vizagapatam .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 5 | 67 | 4 | 176 | 1 | .. | 3 | .. |
| Gódávari .. | .. | .. | 2 | 182 | 1 | 9 | 2 | 19 | .. | .. | 16 | 237 | 1 | 33 | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 20 | 1 | 4 | .. | .. | 27 | 54 | 10 | 36 | 14 | 38 |
| Kurnool .. | .. | .. | .. | .. | .. | .. | 1 | 15 | .. | .. | .. | .. | .. | .. | 5 | 25 | 11 | 137 | 5 | 39 | 8 | 143 |
| Bellary .. .. | 6 | 26 | .. | .. | .. | .. | .. | .. | 1 | 11 | .. | .. | .. | .. | .. | .. | 16 | 34 | 12 | 37 | 2 | 16 |
| Anantapur .. | 1 | 34 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 28 | 13 | 71 |
| Total .. | 28 | 436 | 5 | 202 | 1 | 9 | 3 | 34 | 1 | 11 | 18 | 257 | 2 | 37 | 11 | 94 | 72 | 426 | 47 | 154 | 42 | 271 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | | | | | |
| Cuddapah .. | 4 | 324 | .. | .. | 5 | 83 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 74 | 13 | 81 | 17 | 268 |
| Nellore .. .. | 1 | 65 | 1 | 88 | . | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 17 | 11 | 21 | 53 |
| Chingleput .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 2 | 10 | 1 | .. | 24 | 17 | 7 | 1 |
| North Arcot .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 24 | 18 | 75 | 9 | 25 |
| South Arcot .. | .. | .. | 4 | 53 | 1 | 2 | 1 | 2 | 1 | 6 | .. | .. | 4 | 134 | .. | .. | 35 | 123 | 34 | 42 | 11 | 23 |
| Salem .. .. | 4 | 30 | .. | .. | .. | .. | 1 | 2 | 2 | 8 | 4 | 40 | .. | .. | .. | .. | .. | .. | 13 | 31 | 15 | 58 |
| Trichinopoly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 | 3 | .. | .. | .. | .. | 1 | 3 |
| Tanjore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 9 | 419 | 5 | 141 | 6 | 85 | 2 | 4 | 3 | 14 | 4 | 40 | 5 | 134 | 9 | 13 | 41 | 221 | 119 | 257 | 81 | 431 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | | | | | |
| South Canara .. | .. | .. | 1 | 23 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 34 | 87 | 12 | 214 |
| North Malabar .. | 2 | 70 | 1 | 40 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 3 | 8 | 13 |
| South Malabar .. | .. | .. | .. | .. | .. | .. | 12 | 19 | 5 | 240 | .. | .. | .. | .. | .. | .. | .. | .. | 5 | 1 | .. | .. |
| Nilgiris .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 3 | 2 | 33 | .. |
| North Coimbatore | .. | .. | .. | .. | .. | .. | 1 | 280 | .. | .. | .. | .. | 2 | 458 | .. | .. | .. | .. | 6 | 37 | 12 | 17 |
| South Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 4 | .. | .. | .. | .. |
| Madura .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 30 | 81 | 25 | 16 | .. | .. |
| Tinnevelly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 24 | 18 |
| Total .. | 2 | 70 | 2 | 63 | .. | .. | 13 | 299 | 5 | 240 | .. | .. | 2 | 458 | .. | .. | 35 | 85 | 74 | 146 | 89 | 262 |
| Grand Total .. | 39 | 925 | 12 | 406 | 7 | 94 | 18 | 337 | 9 | 265 | 22 | 297 | 9 | 629 | 20 | 107 | 148 | 732 | 240 | 557 | 212 | 864 |

# APPENDIX B.

## Causes of delay in the submission of final notifications of forest reserves.

| Districts. | Causes of delay. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Notified under section 16 during 1894-95, but with effect only from 1895-96, *i.e.*, after 30th June 1895. | With Board or Government awaiting publication of notification under section 16. | Pending preparation of maps. | Awaiting disposal of appeals. | Awaiting expiry of time prescribed for appeal. | Only recently notified under section 4. | Awaiting payment of compensation. | Awaiting settlement of claims under inquiry. | Awaiting District Forest-officers' answers to claims, demarcation, &c. | Settled, but final report pending with the Collector or Forest Settlement-officer. | Pending with the Collector or Forest Settlement-officer for revision of notifications. | Awaiting replies to references made to Collector or Board. | Awaiting inspection by Forest Settlement-officer. | Other causes, *i.e.*, awaiting return of records from the District Courts, information from Tahsildars, &c. | Total.* |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Ganjám | .. | .. | .. | .. | .. | 1 | .. | 5 | .. | 13 | 19 | 4 | 3 | 7 | 52 |
| Vizagapatam | 2 | 4 | 2 | .. | .. | .. | .. | 5 | .. | .. | .. | .. | .. | .. | 13 |
| Gódávari | 2 | 6 | 1 | .. | 1 | .. | .. | 2 | 3 | 2 | 3 | 1 | .. | 1 | 22 |
| Kistna | 2 | 12 | 3 | 2 | .. | 3 | .. | 6 | 2 | 9 | 2 | .. | 12 | 1 | 54 |
| Kurnool | 1 | 2 | 3 | .. | .. | 3 | .. | 1 | .. | 2 | .. | .. | 11 | 7 | 30 |
| Bellary | 11 | 14 | .. | .. | .. | .. | 2 | .. | 2 | 1 | .. | 1 | .. | 6 | 37 |
| Anantapur | 2 | 3 | .. | .. | .. | 5 | .. | 4 | .. | .. | .. | .. | 8 | .. | 22 |
| Cuddapah | 6 | 8 | .. | .. | 5 | 8 | .. | 2 | .. | .. | .. | .. | 11 | 1 | 41 |
| Nellore | 2 | 16 | .. | .. | 2 | 5 | 1 | .. | 1 | 4 | .. | .. | 8 | 1 | 40 |
| Chingleput | .. | 15 | .. | .. | .. | .. | .. | .. | .. | 5 | .. | .. | .. | 15 | 35 |
| North Arcot | 1 | 2 | .. | 1 | 2 | 3 | 1 | .. | .. | 2 | .. | .. | 9 | 9 | 30 |
| South Arcot | 5 | 33 | .. | .. | .. | .. | 7 | .. | .. | 22 | 6 | .. | 4 | 14 | 91 |
| Salem | 2 | 11 | .. | .. | .. | 6 | .. | 1 | .. | 3 | .. | 4 | 12 | .. | 39 |
| Trichinopoly | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 7 | 8 |
| South Canara | .. | 5 | .. | .. | 1 | 2 | .. | 1 | 2 | 1 | .. | .. | 16 | 19 | 47 |
| North Malabar | 1 | .. | .. | 10 | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 12 |
| South Malabar | .. | .. | 11 | .. | .. | .. | 1 | 2 | .. | .. | .. | .. | 8 | .. | 22 |
| Nilgiris | .. | 6 | .. | .. | .. | .. | .. | 33 | .. | .. | .. | .. | .. | .. | 38 |
| North Coimbatore | .. | 7 | .. | .. | .. | .. | 2 | .. | 1 | 3 | .. | 3 | 4 | 1 | 21 |
| South Coimbatore | .. | .. | .. | .. | .. | .. | | .. | | 3 | .. | | | | 3 |
| Madura | 1 | 2 | 11 | .. | .. | .. | .. | .. | 2 | 19 | 11 | .. | .. | 9 | 55 |
| Tinnevelly | .. | .. | .. | .. | .. | .. | .. | 23 | .. | .. | .. | .. | .. | 1 | 24 |
| Total | 38 | 145 | 31 | 13 | 11 | 36 | 15 | 85 | 13 | 89 | 41 | 13 | 107 | 99 | 736 |

* The difference between this column and the total in Appendix C. to Board's Proceedings, dated 17th August 1895, No. 509, is due to—
(1) The clubbing or division of blocks.
(2) The reported blocks pending with the Board, Government, Collector, District Forest-officer or with the Forest Settlement-officer.

# APPENDIX C.

## Reserved lands not under settlement in square miles.

| Districts. | Up to 1893-94. | Added during 1893-94. | Added during 1894-95. | Total. | Transferred for settlement. | | | | Balance remaining; reserved lands not under settlement. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Up to 1893-94. | During 1893-94. | During 1894-95. | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| *Northern Circle.* | | | | | | | | | |
| Ganjám .. .. | 566 | 6<br>*a* + 1 | 3 | 576 | 560 | 13 | 3 | 576 | .. |
| Vizagapatam .. | 303 | *g* + 1 | 131<br>*b* — 2<br>*g* — 1 | 432 | 303 | .. | *b* — 2 | 301 | 131 |
| Gódávari .. .. | 1,013 | *b* — 12 | *a* + 2<br>*b* — 2 | 1,001 | 1,013 | *b* — 12 | *a* + 2<br>*b* — 2 | 1,001 | .. |
| Kistna .. .. | 846 | 326<br>*d* — 8 | 21<br>*b* — 1<br>*c* — 77 | 1,112 | 730<br>*d* — 3 | 36<br>*c* — 9 | 41<br>*b* — 1 | 794 | 318 |
| Kurnool .. .. | 1,915 | 39 | 281<br>*a* — 2 | 2,233 | 1,907 | 39<br>*a* + 8 | 145<br>*a* — 2 | 2,097 | 136 |
| Bellary .. .. | 507 | 47<br>*a* — 4<br>*c* — 8 | 34<br>*b* — 13<br>*c* — 2<br>*e* — 2 | 564 | 445 | 47<br>*a* — 4<br>*c* — 3 | 16<br>*b* — 13<br>*c* — 2<br>*e* — 2 | 484 | 80 |
| Anantapur .. .. | 397 | 36<br>*a* + 9 | 71<br>*b* — 2<br>*e* + 2 | 513 | 400 | 36<br>*a* + 6 | 71<br>*b* — 2<br>*e* + 2 | 513 | .. |
| Total .. | 5,547 | 443 | 441 | 6,431 | 5,355 | 157 | 254 | 5,766 | 665 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. | 2,070 | 80<br>*a* + 7<br>*b* — 11<br>*d* + 9 | 135<br>*a* — 23 | 2,267 | 1,964<br>*f* — 218 | 81<br>*a* + 10<br>*b* — 11<br>*d* + 9 | 268<br>*d* — 23 | 2,080 | 187 |
| Nellore .. .. | 589 | 18<br>*a* — 7 | 56<br>*b* — 2<br>*c* — 2 | 652 | 570 | 18<br>*a* — 7 | 57<br>*b* — 2<br>*c* — 2 | 634 | 18 |
| Chingleput .. .. | 212 | 27 | 3<br>*b* — 1<br>*c* — 1 | 240 | 197 | 27 | 3<br>*b* — 1<br>*c* — 1 | 225 | 15 |
| North Arcot .. .. | 992 | 76<br>*a* + 1<br>*b* — 3 | 72<br>*e* — 1 | 1,137 | 994 | 76<br>*a* + 1<br>*b* — 3<br>*c* — 3 | 26 | 1,090 | 47 |
| South Arcot .. .. | 802 | 46<br>*b* — 4<br>*c* — 1 | 40<br>*b* — 12<br>*c* — 5 | 866 | 802 | 46<br>*b* — 4<br>*c* — 1 | 23<br>*b* — 12<br>*c* — 5 | 849 | 17 |
| Salem .. .. | 1,296 | 26<br>*a* — 6<br>*d* + 6<br>*d* — 11 | 41<br>*a* + 15<br>*a* — 7<br>*b* — 14 | 1,346 | 1,177 | 35<br>*d* + 6<br>*d* — 11 | 57<br>*a* + 15<br>*a* — 7<br>*b* — 14 | 1,258 | 88 |
| Trichinopoly .. | 239 | 1 | 3<br>*b* — 1<br>*c* — 5 | 237 | 200 | 1 | 3<br>*b* — 1<br>*c* — 5 | 198 | 39 |
| Tanjore .. .. | 24 | .. | 9 | 33 | 19 | .. | .. | 19 | 14 |
| Total .. | 6,224 | 254 | 300 | 6,778 | 5,705 | 270 | 378 | 6,353 | 425 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. | 1,024 | 69<br>*a* + 20 | 25<br>*a* + 9<br>*a* — 7 | 1,140 | 135 | 87<br>*b* + 2 | 214 | 438 | 702 |
| North Malabar .. | 272 | 3 | 10<br>*a* — 8 | 277 | 261<br>*f* + 11 | 3 | 10<br>*a* — 8 | 277 | .. |
| South Malabar .. | 331 | *c* — 2<br>*g* — 1 | .. | 328 | 300 | *c* — 2<br>*g* + 1 | .. | 299 | 29 |
| Nilgiris .. .. | 408 | 15<br>*a* + 13 | 14 | 450 | 328 | 15<br>*a* + 13 | 1 | 357 | 93 |
| North Coimbatore .. | 1,744 | *b* — 6<br>*c* — 1 | *c* — 19 | 1,718 | 1,604 | 37<br>*b* — 6<br>*c* — 1 | 17 | 1,651 | 67 |
| South Coimbatore .. | 591 | .. | *c* — 4 | 587 | 574 | .. | *c* — 4 | 570 | 17 |
| Madura .. .. | 637 | 16<br>*a* — 2 | *a* + 1<br>*c* — 1 | 651 | 625 | 16<br>*a* — 2 | *a* + 1<br>*c* — 1 | 639 | 12 |
| Tinnevelly .. .. | 411 | .. | 18<br>*g* + 1 | 430 | 410 | .. | 18<br>*g* + 1 | 429 | 1 |
| Total .. | 5,418 | 124 | 39 | 5,581 | 4,248 | 163 | 249 | 4,660 | 921 |
| Grand Total .. | 17,189 | 821 | 780 | 18,790 | 15,308 | 590 | 881 | 16,779 | 2,011 |

*a*. By rectification. *b*. At Settlement. *c*. Unreserved or disafforested.
*d*. By rectification of areas constituted as reserved forests in previous years.
*e*. Transferred from or to other district. *f*. Shown or omitted in previous year's return wrongly.
*g*. By rounding off fractions.

## APPENDIX D.

ABSTRACT of district reports in regard to the maintenance of maps in accordance with the provisions of section 81 of the Forest Code.

### *Northern Circle.*

*Ganjám.*—Four range maps (scale 1 inch to a mile) and forty-three reserve maps (scale varying from 1 to 16 inches to a mile) were prepared. The maps are still wanting in some interior details.

*Vizagapatam.*—The district forest reference map has been maintained. It is reported that steps will be taken to prepare the rest of the maps prescribed. The want of a range map is to a great extent met by indicating in the taluk map (scale 1 inch = 1 mile) all reserves, forest stations, &c., and adding on the "agency" (unsurveyed) reserves from the Ordnance survey. Preparation of separate maps for each reserve will have to await survey by the Survey of India Party. Meantime maps showing outer boundaries are being prepared by joining together village maps in the "Ordinary tracts."

*Gódávari.*—The district map (1 inch = 4 miles) showing all reserves, roads, &c., has been maintained; as also a range forest map 1 inch = 1 mile. Separate maps for each reserve are also kept, most on 1 inch = 1 mile, others being enlargements thereof.

*Kistna.*—The office reference map (4 inch scale) is posted up to date. One inch scale maps have been mounted by the taluk and details as regards ranges and sub-ranges, &c., are shown therein. Separate maps for each reserve in 8 inch scale are in course of preparation.

*Kurnool.*—One copy of the office reference map was posted up and additional copies are being prepared by the Survey Department. Taluk maps (scale 1 inch = 1 mile) have been supplied to all range officers with reserve boundaries marked therein and posted up. There are separate maps for each reserve. These are on 4 inch = 1 mile scale and were prepared for forest settlement purposes.

*Bellary.*—The office reference map has been posted up to date. For range maps, taluk maps (scale 1 inch = 1 mile) are being used with required particulars entered therein. They are posted once in six months. Final maps are being prepared in the Madras Survey office.

*Anantapur.*—Only a skeleton map prepared on tracing cloth is kept for the district forest reference map. Separate maps (scale 8 inch = 1 mile) for each reserved forest have been prepared and sent to the Superintendents, Survey of India and the Madras Survey, for preparation of additional copies.

### *Central Circle.*

*Nellore.*—Besides the original copies of reserve maps prepared for forest settlement purposes, nothing was done towards preparation of maps as, in several cases, extensions to the existing reserves are being proposed.

*Chingleput.*—A district reference map reduced to the scale of 4 inch to the mile has been posted up. Maps for each reserve are also being prepared.

*Trichinopoly.*—The office reference map has been maintained as also taluk maps with the required particulars posted therein. The reserve maps for the Trichinopoly, Kulitalai and Udayárpálaiyam taluks are in progress. The preparation of maps for reserves in Musiri and Perambalúr has to await survey of the hill blocks by the Survey of India Party. Working circle map has been prepared for the Padugai plantations in the Kulitalai taluk.

*North Arcot.*—The district as well as the range reference maps have been prepared and posted up. There are maps for all reserves except those surveyed and awaiting survey by the Survey of India Party, but range officers have not yet been supplied with copies.

*South Arcot.*—The district reference map is posted up to date. The taluk maps (1 inch = 1 mile) are used for range reference maps. All the particulars are posted in these maps except hills, streams, &c. There are separate maps for all reserves (on a scale of 8 inch to the mile) except those which are subject to survey by the Survey of India Party. Maps for two working schemes indicating the division of compartment, &c., have been prepared on a scale of 8 inches to the mile.

*Tanjore.*—The district as well as the range reference maps with all particulars regarding forest reserves, roads, &c., shown therein are maintained. There are also separate maps for each reserve with topographical features and admitted rights indicated therein. These maps are on the 8 inch scale.

*Salem.*—The district forest reference map is posted up completely but not so the range reference map which is still incomplete for want of information from range officers. Maps for forty-six reserves have been received from the Survey of India and supplied to range officers.

*Southern Circle.*

*Tinnevelly.*—The district reference map (scale 2 miles to the inch) has been prepared with the necessary particulars noted therein, besides one on the scale of 4 miles to the inch. There are separate maps for each reserve but the interior details have not yet been marked.

*Madura.*—The district forest reference map has not been posted up completely. In most cases there are maps for reserves, but they have to be checked on the ground.

*Nilgiris.*—The progress made during the year was practically *nil.*

*Coimbatore, North.*—The district forest reference map is maintained. The preparation of the other maps prescribed awaits survey by the Survey of India Party. There are maps (scale 1 inch = 1 mile) in range offices, but they do not contain all the required particulars.

*Malabar, North.*—All the required maps exist, but the interior details have not yet been filled in.

*Malabar, South.*—The office reference map has been posted up to 30th June 1895. There are no range reference maps, but there are separate maps for each reserve though topographical features &c. have been shown only in one. Maps of two working circles are ready.

*South Canara.*—District reference map and separate maps for each reserve have been maintained. Range reference maps are in course of preparation.

Reports from other districts have not been received.

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## APPENDIX E.

STATEMENT showing area of reserved forests for which final maps have been prepared

| Districts. | Area of reserved forests. | Area of reserved forests for which final maps have been prepared. | Districts. | Area of reserved forests. | Area of reserved forests for which final maps have been prepared. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | | SQ. MLS. | SQ. MLS. |
| Ganjám .. .. .. | 136 | 118 | Trichinopoly .. .. | 192 | (c) 4 |
| Vizagapatam .. .. | 58 | (a) 14 | Tanjore .. .. .. | 19 | 19 |
| Gódávari .. .. .. | 521 | (b) .. | South Canara .. .. | 114 | 90 |
| Kistna .. .. .. | 643 | 180 | North Malabar .. .. | 151 | 151 |
| Kurnool .. .. .. | 1,737 | .. | South Malabar .. .. | 39 | 39 |
| Bellary .. .. .. | 360 | 18 | Nilgiris .. .. .. | 355 | 355 |
| Anantapur .. .. .. | 380 | (c) 40 | North Coimbatore .. | 859 | 859 |
| Cuddapah .. .. .. | 1,250 | 1,152 | South Coimbatore .. .. | 566 | 566 |
| Nellore .. .. .. | 417 | 417 | Madura .. .. .. | 542 | 542 |
| Chingleput .. .. .. | 197 | 197 | Tinnevelly .. .. | 411 | 411 |
| North Arcot .. .. | 966 | (c) 35 | | | |
| South Arcot .. .. .. | 464 | 464 | | | |
| Salem .. .. .. | 1,089 | 488 | Total .. | 11,466 | 6,159 |

(a) The figure given last year (29 square miles) is reported by the Collector to be incorrect.

(b) Only sketch and not final maps are reported to have been prepared for the areas.

(c) The figure is less than that entered in the corresponding appendix of 1893–94, but the difference is apparently due mainly to the misapprehension of the term "finally mapped" during 1893–94.

## APPENDIX F.

STATEMENT showing the area of forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile during 1894–95.

| Districts. | Area of reserved forests and reserved lands. | Area closed to grazing. | Area opened to grazing. | Area grazed over. | Number of cattle and sheep admitted. | Average number of cattle and sheep per square mile. |
|---|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | NO. CATTLE. | |
| 1. Ganjám .. .. .. | 576 | 148 | 428 | .. | 32,866 cattle. 1,354 sheep. | (a) .. |
| 2. Vizagapatam .. .. .. | 432 | (b) 18 | (b) 51 | (b) 234 | 8,007 | 157 |
| 3. Gódávari .. .. .. | 1,002 | Not reported by the Collector. | | | 15,389 | .. |
| 4. Kistna .. .. .. | 1,112 | 150 | 972 | 937 | 455,462 | 486 |
| 5. Kurnool .. .. .. | 2,232 | 214 | 2,018 | 2,018 | (a) .. | (a) .. |
| 6. Bellary .. .. .. | 564 | 215 | 349 | (c) 18 | 19,844 cattle. 28,107 sheep. | (a) .. |
| 7. Anantapur .. .. .. | 513 | 113 | 400 | .. | 28,136 | (a) .. |
| 8. Cuddapah .. .. .. | 2,268 | Not reported by the Collector. | | | 61,408 sheep. 15,320 cattle. | (a) .. |
| 9. Nellore .. .. .. | 652 | Leased out. | | | | |
| 10. Chingleput .. .. .. | 239 | Not reported by the Collector. | | | 21,234 cattle. 19,474 sheep. | (a) .. |
| 11. North Arcot .. .. .. | 1,136 | 64 | 1,072 | .. | 154,445 | 143 |
| 12. South Arcot .. .. .. | 866 | 13 | 853 | .. | 235,133 | (a) .. |
| 13. Salem .. .. .. .. | 1,347 | 58 | 1,289 | .. | 278,242 | (a) .. |
| 14. Trichinopoly .. .. .. | 287 | 22 | 215 | 208 | 57,957 | 280 |
| 15. Tanjore .. .. .. | 33 | 1 | 32 | 19 | 763 cattle. 2,299 sheep. | 161 |
| 16. South Canara .. .. .. | 1,140 | 473 | 667 | .. | 28,177 | (a) .. |
| 17. North Malabar .. .. | 277 | .. | 277 | 47 | 9,858 | (a) .. |
| 18. South Malabar .. .. | 328 | 328 | .. | .. | .. | .. |
| 19. Nilgiris .. .. .. | 451 | 5 | 446 | .. | 29,038 | (a) .. |
| 20. North Coimbatore .. .. | 1,717 | (d) 235 | 1,482 | 1,482 | 134,344 cattle. 22,948 sheep. | (a) .. |
| 21. South Coimbatore .. .. | 587 | 58 | 507 | .. | 24,860 cattle. 14,370 sheep. | 77 |
| 22. Madura .. .. .. | 651 | Not reported by the Collector. | | | 8,699 cattle. 4,828 sheep. | (a) .. |
| 23. Tinnevelly .. .. .. | 430 | 26 | 404 | 159 | 28,452 cattle. 7,670 sheep. | 228 |

(a) Not given by Collectors.

(b) Reserved lands notified by Collector are excluded from the figure.

(c) Open to free-grazing.

(d) Cattle belonging to people actually living within some of these areas are reported to have been allowed to graze on payment of fees.

NOTE.—Most of the Collectors have not reported the number of sheep separately from that of cattle and the area grazed over.

## APPENDIX G.

*Natural and artificial reproduction, cultural operations, improvement fellings, experiments and exotics.*

### Natural Reproduction.

*Northern Circle.*

In *Ganjám* the reproduction of sâl is excellent and there is a good growth of seedlings. In *Vizagapatam* the growth is satisfactory in closed reserves except in the Golgonda Agency where fires are destructive. Regeneration of teak in the Goragaballe tope reserve is very good. The success is attributed to ploughing up the land round the mother trees and sowing a cereal crop to nurse the young seedlings through the first hot weather. In *Gódávari* the flowering of bamboos along the Gódávari river has been followed by a dense crop of young bamboos and the reproduction of teak, konda thangedu (*Xylia dolabriformis*) and Nallamaddi (*Terminalia tomentosa*) in the Yernagudem range is reported to be good in the unburnt areas. It would have been interesting if the condition of the burnt areas had been reported; fires unless very severe are not inimical to the reproduction of teak, although they interfere with the subsequent development of the young trees. In *Kistna* in coupe 2 of the Guntúr Babul working circle it was found that only 60 per cent. of the stools had coppiced, but their place has been taken in many parts by a luxuriant growth of seedlings. In Bollapalli, Mutukur and Venkatayapalam reserves, closed to grazing, it has been found that the reproduction from seed of Yepi (*Hardwickia binata*) is five or six times as much as in forests open to grazing. In the latter seedlings of inferior species predominate. The growth of *Hardwickia, Anogeissus* and *Chloroxylon* has been measured and compared with that recorded three years ago for the same trees. It is noted that the growth is slow and that *Hardwickia* shows the worst results. Casuarina coppice growth is being studied, as also the growth of mangrove. In *Anantapur* sample plots of one acre each were taken up in certain ranges to see whether protection against fire and grazing has any effect upon reproduction. It is too early to predict results. In *Bellary* natural reproduction is on the whole poor. The reproduction of *Hardwickia binata* is good in the Malapanagudi forest; elsewhere it is inferior, even in areas closed to grazing. It is doubted whether the areas supposed to be closed are really so, and in order to ascertain whether the poor reproduction is solely due to grazing an experiment is being tried by closing and fencing a 5-acre plot in each of the Chiribi and Malapanagudi blocks. Reproduction of date and palmyra in Nowlikallu, Kuppagal, Belagalem and Tungabadra reserves is very good. Coppice regrowth in the felled compartments in the Ramandrug range and in the Chiribi reserved forest is satisfactory. In parts of the fire-protected areas in Kurnool, which escaped fire, a fair crop of seedlings is coming on. The coppice growth in the Chelama improvement fellings continues satisfactory. The heavy grass which suppresses or retards seedlings ought to be cut before commencement of fire season to diminish danger from fires and to give the seedlings a chance of getting a head of the grass in the early rains.

*Central Circle.*

In *Nellore* reproduction from coppice of *Eugenia jambolana, Albizzia amara* and *Memecylon tinctoria* is good. In parts of the Seshachellam reserve in *Cuddapah* bamboo seedlings in the vicinity of the old clumps are plentiful. There is no improvement in the seeding of red sanders (*Pterocarpus santalinus*). *Hardwickia binata* and *Anogeissus latifolia* are the only two important trees in the district which appear to regenerate themselves successfully by seed. Coppice throughout the district is good, the chief exception being *Acacia Arabica*. In *Chingleput* coppice in coupes continues to flourish. In *North Arcot* reproduction from seed has been generally poor owing to scanty rainfall and grazing. In the protected areas of the Javadis, where there is little or only light grazing, reproduction of sandalwood from seed is abundant. There has been good growth of red sanders from coppice in coupes, while reproduction from seed is slow and uncertain. The regeneration of *Hardwickia binata* from stool is very promising. *Chloroxylon swietenia* (Satin-wood) and *Anogeissus latifolia* continue to come up well from coppice and seed. Many of the stools of casuarina in the plantation near Palmaner have thrown out coppice shoots. It remains yet to be seen whether here, as in most other places, the coppice shoots will not die. Experience hitherto has shown that casuarina can not be relied upon to coppice and in very few instances have the results proved satisfactory. In *South Arcot* regeneration in the sandalwood tracts adjoining hill villages is not satisfactory owing probably to heavy grazing of cattle. Reproduction from seed and coppice of other species is encouraging. *Bambusa arundanacea* is reported to have seeded profusely on the Tenmalais. In *Tanjore* natural reproduction from seed is not very marked. It is noted however that a large number of mangrove seedlings have sprung up in two blocks The growth from coppice is good except casuarina. In *Trichinopoly* reproduction from stool and seedling is very satisfactory in the Cauvery right bank plantations. In *Salem* natural reproduction from coppice continues good, but the growth from seed is only noticeable in areas specially protected, *i.e.*, closed to grazing. There is a fair show of sandalwood seedlings in the Singarapet coupes.

*Southern Circle.*

In *Madura* coppice growth in the coupes worked in previous years is fair, but reproduction from seed is unsatisfactory except in areas protected from fire and grazing. The regeneration of teak from coppice shoots in *Tinnevelly* is good. A large number of sandalwood seedlings have sprung up in the Alagarkoil Valley and at Courtallam during the year under report, and these with their predecessors of 1893–94 are reported to be thriving. In the evergreen forests and sholas the reproduction of *Kongu*, the chief timber of the district, is good, and that of the other species generally fair. In the plains reserves which consist of rocky and gravelly hills the growth of grass and scrub jungles has improved under protection. In the *North Coimbatore Division* with the whole area thrown open to grazing and only a very small area really protected from fire natural reproduction is anything but satisfactory. In the Kollegal range and the Bylore plantations sandalwood seedlings spring up fairly well in places where protection against cattle is enforced and the ground is cleared of grass and weeds. In *South Coimbatore* (*Tunacadavu range*) reproduction is good and the question is now how to foster it and prevent its suppression by bamboos and inferior growth. The matter was under consideration in connection with the report made by Mr. Popert after his inspection. In Pollachi, Sholakarai and Bolampatti coppice is very fair, that in the last-named range being exceedingly good. The coppice growth on the *Nilgiris* from the Australian Eucalyptus and wattles has, as usual, been excellent. The natural sholas on the plateau show a visible improvement under rigid protection from cattle, and reproduction in the forests on the lower slopes of the Coonoor ghat is fair in places that have escaped fire. The self-sown seedlings of sandalwood near the Northern Hay sandalwood plantation are progressing, but the plantation itself appears to show no improvement owing to non-clearance of the weeds. In *North Malabar* progress is not satisfactory. An interesting experiment was made in a "tuckle" (shifting cultivation) by having the area cleared of all scrub growth and of useless species. The result showed a good growth of seedlings of Blackwood (*Dalbergia latifolia*), Vengai (*Pterocarpus marsupium*) and Karimaradu (*Terminalia tomentosa*), which goes to prove that, if "tuckles" (shifting cultivation) is only allowed in bamboo forests and then cleared, say, twice in 4 or 5 years, the reproduction will probably be excellent. The Conservator suggests that the system of insisting on introducing timber tree seed with the grain seed and paying the cultivator at a certain rate for every hundred seedlings handed over, might be introduced with advantage. The suggestion, if it can be acted upon, is undoubtedly a good one, but even then in all probability it will be found that weedings or cleanings will be afterwards necessary. In *South Malabar* natural reproduction is fair in fire-protected areas, Nellikutta and Karimpoya. Elsewhere Irul (*Xylia dolobriformis*) very readily reproduces itself in spite of constant fires. Regeneration from coppice shoots of Benteak (*Lagerstromia Microcarpa*), Karimaradu (*Terminalia tomentosa*) and Blackwood (*Dalbergia latifolia*) is excellent in low-lying places where not over-shadowed. In the Walayar reserve the growth from stools and seed is excellent. In the Chenat Nair reserve there is a fair growth of seedlings of Benteak (*Lagerstromia Microcarpa*), Vengai (*Pterocarpus marsupium*), Blackwood (*Dalbergia latifolia*) and Irul (*Xylia dolobriformis*). Reproduction in South Canara is on the whole improving, but that of inferior species, especially Marwa and Tirwa, largely predominates to the detriment of the valuable species. A paucity of mother trees of the more valuable kinds is doubtless the chief reason for the absence of seedlings, and the few that do come up are naturally swamped by the predominence and more rapid growth of inferior species. Fires and grazing also play havoc.

ARTIFICIAL REPRODUCTION AND PLANTATIONS.

*Northern Circle.*

The additions to the area of plantations were mainly in Ganjám and Kistna and to some extent in Gódávari. The progress of casuarina planting at Agusti Nowgam, Ganjám district, has been as follows :—

In 1893–94 an area of 53 acres was planted up 6′ × 6′ ; in 1894–95, 65 acres were planted 6′ × 6′ and about 7 acres 12′ × 12′. The total work up to the close of the year has been the planting of 118 acres 6′ × 6′ and 7 acres 12′ × 12′. The estimate has been largely exceeded, and although labour may prove cheaper and the work of replanting be less in this and succeeding seasons, the necessity for reconsidering the financial aspect of the work at the close of 1895–96 will be apparent. It is satisfactory to relate that the encroachment of sand is in a great measure checked. In *Góddávari* 6 acres in compartment No. 2 of Narsapur plantation were added to the list and planted with 6,108 casuarina. The seedlings planted in this as well as those planted in Bandammulanka in the previous year are reported to be doing well.

The work of planting in the Kistna district is now being concentrated on two blocks to be completed in a systematic manner. It is also proposed to prepare a regular working scheme for planting and felling operations. On the whole planting works carried on during the year have been regarded as successful with a single exception, viz., Kara reserve, where planting of cashew-nuts was almost a failure. In Gopivanipalem reserve 21 acres were planted with 12,500 casuarina.

and 1,000 sissu at a cost of Rs. 34 an acre. There were about 7,000 casualties during the year among the seedlings planted in the previous year. In Karlapalem reserve the planting of casuarina extended over 25 acres at a cost of Rs. 631, but the number of trees planted is not recorded; bamboos were also planted all round the edge of this reserve. The condition of both the casuarinas and bamboos is reported to be good. In *Bellary* 78 acres were added to the list—4 acres in Kuppagal and 74 in various other blocks. The 4 acres in Kuppagal were planted with various kinds of trees and inspected by the Conservator in July last. The work of the year was not altogether satisfactory; the pits were dug too shallow and too cheaply, and the saving thus caused is swallowed up in the extra watering. By deep planting the main object was to secure quickly grown young trees and thereby emancipate them from the local climatic drawback which check young growth in the Deccan. The previous two years' work has proved successful, trees of 3 years being up to 18 feet. The Conservator remarks: "It is premature yet to extend largely or cheaply; our knowledge of the requirements of the different species being only slight. For this reason the work is classed as an experiment."

*Central Circle.*

In *Nellore* the average first year's cost of the casuarina plantations of 1893–94 was only Rs. 10 per acre against Rs. 31 of plantation taken in 1890–91. The large decrease was due to the care taken to keep the watering charges within reasonable limits. In all 90 acres were planted. In addition, in the old plantations of 1893 which are poorly stocked 2,700 seedlings were put out round wells; the result is very satisfactory. In the *Cuddapah district* the red sanders (*Pterocarpus santalinus*) in the plantation at Kodur continue to thrive. The trees are 29 years old with an average girth of two feet. It is reported that they do not probably develop as much heartwood as trees grown in the open on the hills. The Conservator remarks "the soil here is richer and the growth more rapid; but if trees of the same age were examined the amount of heartwood would be the same." In *North Arcot* the casuarina suffered severely from drought and hot strong winds. An attempt was made in Trichinopoly to sow broadcast in the plain forests and padugais. The seedlings died from the excessive heat. In Tanjore 40 acres were planted with casuarina at varying distances to determine which will prove in the long run the cheapest and most efficacious method of planting.

*Southern Circle.*

In *Tinnevelly*, except the reclamation of the sandy waste of Kudaramalai Terri, no artificial reproduction worthy of note was undertaken during the year. A consignment of teak seeds was obtained from Coimbatore and the seeds after being soaked in water were dibbled in a compact area in the Mundanthorai block and the Courtallam forests. None germinated in the former, but the seedlings in the latter have attained a height of 1 to 3 feet and look healthy. Vengai, (*Pterocarpus marsupium*), *nim* and other seedlings were tried in both the localities with similar results. An experiment was tried in the Pápanásam ghat forests with sandalwood seeds procured from South Coimbatore. The seeds were dibbled over a small area of scrub jungle, the ground being previously cleared of all undergrowth and dug up. The result was poor. The old sandalwood plantations in *North Coimbatore* are now treated as sandalwood compartments. The growth is not good and it is reported to be doubtful whether many trees will come to maturity. On the *Nilgiris* seventy seven acres were added to the Badaga plantation scheme. The area was planted with *Acacia melanoxylon* and *Dealbata and Eucalyptus rostrata* and the plantings of this and the preceding year proved a failure. In *North Malabar* a considerable area has been planted with teak in Kanoth and Begur and in "*tuckle*" (shifting cultivation) lands; and in the last-named, the District Forest-officer has planted in crowbar made holes at a very low cost per acre. Of the sandal seed put down in 1893–94 only 40 plants survived, the rest having been destroyed by pigs. A further quantity of 80 lb. of sandal seed was sown. The different species of bamboos and ceara rubber trees continued to thrive well. In *Nilambur* the teak and *Swietenia macrophylla* plantation were extended by 120 acres. The question of further extension has been considered in the revised working plan which awaits sanction. Some attempts were made in *South Canara* to assist reproduction in the shape of broadcast sowing. The result was a failure owing principally to the exceptionally hot weather and fires, &c., which destroyed the crop. Seven acres were added to the regular plantations.

CULTURAL OPERATIONS.

An experiment was made in *Bellary* of sowing date seeds in three blocks of reserves. It failed in two, while in the third 30 per cent. of the seed germinated. The date and palmyra seeds sown in the two preceding years are coming up well, except in the Bandri reserve in which date seeds sown the preceding year have not germinated. The 25 rain trees planted in the Mundrigi reserved forest are reported to be growing fairly well. Experiments were continued in *Nellore* of sowing in blanks and bare areas with *Strychnos nux vomica*, *Sapindus emargenatus*, *Cassia auriculata*, *Albizzia amara*, &c. Broadcast sowing, sowing in drills and in patches were tried. The first two were unsuccessful; the seed germinated, but died during the hot weather. In the patch

sowings the *Strychnos nux vomica* and *Sapindus emargenatus* failed, the remainder is thriving. An attempt was made to grow casuarina without watering, it cannot be said to have been successful. The planting of cashew-nut at Tammapalam was continued during the year; 80 acres were stocked; about 30 per cent. of these have died. The cost of the work is nominal and the operation will be continued. The *Acacia Arabica* and *Albizzia Lebbek* progress well in two reserves of the *Cuddapah* district, while palmyra and casuarina have failed. In *North Arcot* there was a variety of operations. The work for the most part consisted of the introduction of useful indigenous species in various localities. Nurseries were formed and the seedlings trnsplanted from them into the open. These attempts may be regarded as purely experimental, the object being to ascertain the suitability of species to soils. Several experiments were made in different reserves with bamboo, sandalwood and teak plants. The experiment with bamboo fared but poorly, while that with sandal and teak was successful in the Karnatieghur reserve, the Ambúr plantations and the Pedugavaripalli casuarina plantations near Palmanér. In *South Arcot* in the plain taluks where there is a scarcity of bamboos, nurseries have been formed and the seedlings will be put out during the rains in different reserves. This measure if successful will prove a boon to the neighbouring ryots. In the Annamalai reserve seeds of Thuringi (*Albizzia amara*), *Vagai* (*Albizzia Lebbek*), Konnai (*Cassia fistula*) and Vepan (*Azadirachta indica*) were sown in pits. The undertaking has been successful, 80 per cent. of the seeds having germinated. Casuarina seedlings were put out in the coast block of the Tirutturaippúndi taluk of the *Tanjore* district to see whether the blocks selected on the coast for reservation are fit for casuarina; the result showed that they are. Seeds of different species were sown in the southern range in 49 acres after being ploughed. Though 75 per cent. germinated the seedlings died not having been able to withstand the hot weather. In *Trichinopoly* an attempt has been made to get the Padugais handed over by the Public Works Department planted up by ryots, the condition being that they should plant either bamboo or casuarina in return for which they were to enjoy the right of growing tobacco crops. This has answered fairly well in several cases. In the *Tinnevelly* district cultural operations were confined to 604 acres and the results were, on the whole, unsatisfactory, owing, it is said, to want of timely rains. The growth of palmyra and cashew-nuts in the Terrais are however promising. In *Nilgiris* 27 kinds of *Eucalyptus* seeds obtained from Australia were sown in nurseries and all germinated well.

## Works of Improvement.

In *Ganjám* creepers were cut over 12,377 acres at an average cost of As. 1–1 per acre. An experimental improvement felling was made in the Kariamba reserve over an area of 20 acres to ascertain the cost of felling and the revenue to be expected. This work cost Rs. 20 and the wood cut was sold at site for Rs. 81–3–0. The operation was financially a success. In *Cuddapah* creeper cuttings were done over 200 acres of the Balapalle working circle. In *South Arcot* with a view to incite and encourage local demand a large number of firewood coupes was sold during the year, the probable yield having been previously estimated by experimental fellings. The annual coupes are systematically arranged and the preparation of working plans would be a simple matter. In *Salem* the coupes sold during the year under review gave an average price of Rs. 8–0–6 per acre, as compared with Rs. 10–7–1 in 1893–94. The lower price realized was due to a larger area of rather poor growth having been sold in certain ranges, which reduced the general average. Various other coupes throughout the district were worked for fuel and to meet local requirements. The right to remove bamboos was sold to contractors who were bound by agreement to fell the same on proper sylvicultural principles. Attempts were made in *Madura* towards localising fellings in the shape of departmental cuttings. Financially the cuttings were decidedly successful. In *Tinnevelly* a new system of working coupes was introduced in Srivilliputtúr and was found profitable. It consisted of selling the produce cut by contract, the cost of felling and conversion being borne by the contractor himself and the materials removed under supervision. The old system consisted of selling the coupe at so much an acre. The average profit per acre was Rs. 9–0–4 against Rs. 8–0–11 in the previous year. In *South Coimbatore* prickly-pear and stumps were removed from a coupe in the Singara tope working circle and seeds of timber trees sown with castor-oil seeds. In *Nilgiris* a certain amount of cutting of creepers and clearing of undergrowth was done in the Ootacamund plantations and in the town sholas in Coonoor range, the last on sanitary grounds. Ten acres of Benne teak plantations were thinned. In *South Malabar* almost all the plantations were weeded. Thinnings were made only in a few plantations and parasite clearing was done in Tirnillekana and Oravakad old plantations. Fifty four acres were cleared and thinned in *South Canara*, and the results are satisfactory.

## Experiments and exotics.

*Acrocarpus fraxinifolius.*—In Cuddapah all the plants put out in the plains have died, but those on Horsleykonda are doing exceedingly well at an elevation of about 3,400 feet. No further extension is contemplated.

*Bahar grass*—In *Nilgiris* an experimental sowing of this grass was tried in the Segur range. The seed, though watered for a time, has only recently germinated. The results will be carefully watched.

*Bamboos.*—In *Nilgiris* the Japanese bamboos planted in Cully shola are doing very well, some of them being 12 feet high. The question of their propogation by offsets and future distribution is under consideration.

In *North Malabar* the *Dendrocalamus brandisii, Dendrocalamus longispathus, Bambusa vulgaris, Cephalostachyam pergracile* and *Beesha travancorica* continue to do well. A large number of cuttings of the golden Burma bamboo was made during the year. It is too early to record anything of the result. Of the 249 cuttings reported in 1893–94, 170 survive and have been planted out in the swamp in the Manantoddy garden.

In *South Malabar* the *Arundinaria brandisii* and *Dendrocalamus longispathus* planted along the bank of the rivers are growing well, as also the *Bambusa longispathus* and *Cephalostachyam pergracile* in Pokote and Mulathumanna. The *Bambusa vulgaris* in Airavellikava propogates itself freely from nodes. The *Arundinaria brandisii* planted at this place in 1879 continues to flourish, the largest tree measuring 20½ inches against 19½ inches in 1893–94. Ten nodes were planted in February last, of which four are doing well.

In *South Canara* the clumps of *longispathus* continue to thrive fairly well at Sabladi and Herur.

*Burcklandia populnea.*—In *Nilgiris* those planted in 1887 with a southern aspect have done well being 10 to 20 feet high. The others planted in a northern aspect in 1888 are only about 6 feet high.

*Bixa orellana* in *North Malabar* continues to thrive.

*Ceara rubber.*—In *Kistna* some Ceara rubber received from Conservator was planted in Weld reserve; 900 germinated; some quantity was sown elsewhere also with good results There are 116 trees in the Tindivanam and Tiruvannámalai taluks, *South Arcot district*, varying from 20 to 30 feet high. The climate and the soil do not seem suited for the propogation of this species and it is questionable whether any of the existing trees will at any time yield rubber. No further experiment should be attempted.

In *North Malabar*, the trees grow like weeds and reproduce themselves readily. A large sample ball of rubber was collected and sent to the Director, Royal Garden, Kew, to be tested.

In *South Malabar* the Ceara are doing well. The largest tree is 38 inches in girth and the smallest 10 inches. The oldest is nearly 17 years. In January 1895, 100 trees were tapped and 10 lb. of rubber obtained therefrom were sent home to be tested and valued. The largest tree yielded 4 oz. of rubber and the smallest ½ oz. Four of the larger trees were found not to bleed at all. *Hevea* and *Castilloa* scarcely bled and from these only ½ oz. of rubber was collected.

*Cephælis Ipecacuanha.*—Out of 249 plants of 1887 transplanted on the Nilambur hill in *South Malabar* only 149 survive and they flowered fairly well.

*Cryptomeria Japonica.*—Planted in Nilgiris in 1887. Remain stunted.

*Curtis faginia.*—Planted in Nilgiris in 1887. There are only a very few plants. The growth is very poor being only about 3 feet high.

*Date.*—In *Bellary* date seeds were sown in certain reserves, but the experiment resulted in a failure In Chiribi block 30 per cent. of the seeds sown have germinated and the height of the plants is about 1 foot. The date seeds sown in the preceding years are coming up well.

There were 100 plants at Sriharikóta in *Nellore* at the beginning of the year, of which only 55 survived at its close. In *Cuddapah* 40 more of the Persian Gulf dates died during the year, leaving only 31. The experiment in these districts is a failure and should be discontinued.

In *North Arcot* the plants raised from seed imported from Busrah in 1886 do not appear to succeed so well as the offsets imported from the same place in that year. Out of 59 plants originally raised from seed, 40 are flourishing and are 8 to 9 feet high. Of the 86 offsets put out originally, 75 now survive, having a height of 6 to 14 feet. A number of seedlings were raised from local seed and were planted out in Tiruvallam, but the mortality has been very great owing to two successive dry seasons.

In *South Arcot* there were 142 trees at the beginning of the year to which 2 were added. 27 died during the year, leaving a balance of 117 trees, their height varying from 3 to 12 feet.

In *Trichinopoly* the 30 offsets in Manatattai plantation are now 13 to 20 feet high. Of the 569 plants raised from seed in 1887–88, 29 trees are in Manatattai 3 feet high, and 41 in Lalapet, 6 feet high.

In *Tanjore* only 4 plants planted in 1881 in the South date gardens in the Vettangudi forest died, leaving 14 plants varying from 5 to 11 feet in height. There was no other mortality in the date plantations. No further expenditure should be incurred upon this experiment.

In *South Malabar* the date palms are not doing well, being planted in a very wet soil. There were 426 plants at the beginning of the year, of which only 133 perished.

*Divi Divi.*—In *North Arcot* 312 trees succumbed out of 2,236 living at the beginning of the year. If a market could be found for the pods, no difficulty would be experienced in growing this upon a large scale.

In *South Arcot*, of the 56 trees that remained at the beginning of the year, 9 died.

There are 123 plants, 5 to 18 inches high in *South Canara*, which are being transplanted into Wandse depôt.

*Edible prickly-pear.*—In *Nellore* this is in a very satisfactory condition. There were 12 plants and 10 were added during the year by cuttings from the original plants.

*Eucalyptus.*—The various species of this tree in Sim's Park in *Nilgiris* are reported to grow fairly well. The germination of the various *Eucalyptus* seeds imported from Australia and sown in the Ebbanad nursery is a great improvement on the previous year.

In *North Malabar* the 45 *Eucalyptus* have now diminished by 5. One or two of the *Eucalyptus Globulus* species are very fine trees.

*Ficus Elastica.*—Two lb. of seed were obtained from Assam and put down in a nursery at Kanoth in *North Malabar*. About 200 cuttings were put out in the Dindimal forest and 50 at Mukki. Of the 130 cuttings planted in 1893–94, 38 survive. The trees in Manantoddy Forest Lodge compound continue to look well and grow fast, especially the larger ones.

*Chinese guava.*—In *Nilgiris* 60 of these plants introduced by the Conservator, Southern Circle, are well established and are about 4 to 7 inches in height. It is reported that it is intended to distribute them to the Government gardens at Ootacamund and Coonoor and among planters desirous of having them.

*Grevillia Robusta.*—These were planted in *Nilgiris* in 1888. The growth is very good both in height and girth. They are about 40 feet high.

*Hevea braziliensis.*—In *North Malabar* the two plants at Manantoddy and the three at Kanoth continue to grow well.

*Hevea Castilloa.*—These trees are all doing well in *South Malabar*.

*Landolphia Florida.*—There are 34 plants in *South Malabar*, all of which thrive.

*Mahogany.*—In *Vizagapatam* the *Mahogany* seed sown at Kotali bungalow in June 1894, grew to a height of 6 feet and were transplanted round the bungalow. In *Kistna* 10 oz. of *Mahogany* was sent by Conservator, 2 oz. were sown in the Weld reserve, of which 161 seeds germinated. Some quantity was sown also in Kondapalli and none germinated.

In *Nellore* of the ½ lb. of *Swietenia macrophylla* seeds supplied by the Conservator, one-half was sown at Tammarapatam, 153 seeds in pots (3 in each) and 80 seeds in beds prepared with manure. Only 55 in pots and 10 in beds germinated, and are thriving well. The other half was sown at Rapur with poor results. The casualties under *Mahogany* and *Swietenia macrophylla* at Sriharikóta are large, owing to destruction of plants by insects, 94 and 30 plants, respectively, survived against 129, 80 which remained at the close of 1893–94.

In *Cuddapah* various experiments were made in Kodur range. Every one of the plants in Balapalle working circle has succumbed, as they were evidently not watered, while those put out at the same time in plantations and regulary watered thrive well.

In *North Arcot* of the 243 *Mahogany* plants, raised in 1886 surviving at the beginning of the year, 22 succumbed ; of the 200 plants of 1891, 31 died and of the 163 sown in 1893–94, 133 are still living. The ten-year old trees are 15 to 17 feet in height, whereas the 1891 sowings are 3 to 5 feet high. Out of the 120 seeds of *Swietenia macrophylla* sown at Palmanér in a nursery, only 16 germinated. Of a like number sown round the Mortana bungalow none germinated.

In *South Arcot* the *Swietenia macrophylla* and *Mahogany* seeds received from the Conservator were sown in the Ramapuram reserved forest and the germination was satisfactory. There remain now 186 of the former varying from 1 to 2½ feet in height and 170 of the latter, 3 to 5 inches high. There remained 398 *Mahogany* trees at the beginning of the year, to which 140 were added. Three having died during the year, 535 trees survived at it close, varying in height from 1 to 55 feet. The trees are in a thriving condition.

In *Trichinopoly* out of 308 plants transplanted in 1886–87, there remain 25 in Lalapet, 57 in Kulitallai and 160 in Manatattai. Their average girth is uniform, 9 inches, while the average height in each plantation is 10, 18 and 19 feet, respectively. Out of the 183 plants imported from Madras there are 28 in Manatattai and 105 in Kulitalai, with an average girth 12 inches and height of 24 feet. Of the plants raised from the 4 lb. of *Swietenia macrophylla* seed received in May and July 1894, 720 remain. They are ½ to 1 inch in girth and 1 to 2 feet in height.

In *Tanjore* 29 trees remained at the commencement of the year in the Vettangudi reserved forest; 9 died during the year, leaving 20 with height varying from 9 to 20 feet. Of the 50 *Mahogany* plants in the Cumbum range, *Madura district*, 12 were damaged by fire, of which 5 coppiced and 7 died.

In *South Coimbatore* the *Mahogany* plants planted last year have all died off.

In *Nilgiris* the few *Mahogany* plants round the Benne rest-house have done well, but have been attacked by the borer. One hundred and eighteen *Swietenia macrophylla* plants are basketted. It is proposed to plant them in the Moyar West reserve and, if possible, a few at Mudumalai. The *Mahogany* has not done well in *North Malabar* wherever planted, and the ill success is attributed to carelessness in selecting planting sites.

In *South Malabar* the *Swietenia macrophylla* tree in Chathambarai reserve, which is now 23 years old, measured 83 feet in height, 89 inches in girth at base and 67½ inches at 5 feet from the ground against 82½ feet in height, 86 inches in girth at base and 65 inches at 5 feet from the ground in the previous year. The trees planted in Pokote in 1890 to 1894 are all doing well. Of the 26 plants that remained in the Walayar reserve only 7 survive. The *Swietenia mahogani* trees planted in Airavellikava, Ramalore and Panangod, now fourteen years old, are stunted and deformed owing to frequent attacks of borers.

In *South Canara* 154 plants of *Swietenia macrophylla* were transferred to Wandse depôt and are alive; 150 more are in the nursery at Sabladi.

*Osiers.*—All the varieties of the osier cuttings in *Nilgiris* have gradually died out.

*Peltoforiem ferrugineum.*—Of the 30 trees planted in 1886 in the Vettangudi reserved forest, *Tanjore district*, 24 remained at the commencement of the year, and they are doing well. Their height and girth vary from 18 to 39 feet and 1 to 4 feet, respectively.

*Podocarpus elongatas.*—These were planted in 1885 in *Nilgiris*. The growth is very poor, they being only 3 feet.

*Panciflora.*—Only a few in *Nilgiris* which are very small.

*Pinus pinea.*—These were planted in *Nilgiris* in 1892. They are very small, but look healthy.

*Pinus longifolia.*—These plants are in *Nilgiris*, and are gradually dying off.

*Syncarpia laurifolia.*—Planted on the *Nilgiris* in 1888, grow fairly. Some reach a height of 15 feet.

*Sterculia alata.*—Out of 84 plants in *South Malabar* that remained alive at the beginning of the year 2 died and the remaining 82 are doing well. The largest is 23¼ feet high and 10½ inches in girth and the smallest is 4½ feet high and 2¼ inches in girth.

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## APPENDIX H.

### ROADS.

The following is the list of new roads and buildings completed during the year under report:—

*Northern Circle.*

*Ganjám.*—Thirty-eight miles of inspection paths.

*Kistna*—

(1) From Minchalapadi to Virabhadrapuram (8 miles).
(2) From Kondramutta to Bollapalli (6¾ miles).
(3) Portion (4 miles) from Adigoppula to Ramulapuram *viâ* Khambalakanama.
(4) A cart-track (1½ miles).
(5) The second section of the Kondapalli hill road.

*Bellary*—

(1) Bridle-path along the ridge of the North-eastern range (5 miles).
(2) Cart-tracks in 8 (*b*) compartment of Ramandrug.

*Central Circle.*

*Cuddapah.*—Peddarallasagaru road (2 miles) and the Balapalle-Voyalpad road (1 mile).

*South Arcot.*—Chengam to Poramanandal (4 miles).

*Salem.*—Kandukotta to Anchetty.

*Southern Circle.*

*Tinnevelly.*—The new Pápanásam road and the trace of Virusadi Chinnapattu bridle-path.

*Madura.*—Kudriyar road and Arisiparai inspection path and Vannathiparai cart-track.

*South Coimbatore.*—A bridle-path from Sungam to Tellikol.

*Nilgiris*—

(1) A new road in the Kuppathi block (5 furlongs).
(2) An inspection path (1 mile and 6½ furlongs).

*North Malabar*—

(1) Edatorai-Kurchiyat road (10 miles).
(2) Pungady line to Coorg boundary (1½ miles).
(3) From Kubbany river in Pudi forests to join the Pudady Nambyar's road.

*South Malabar.*—An inspection path (28 chains long) and two miles of compartment road in Nilambúr range in block No. IX.

## Buildings.

### *Northern Circle.*

*Vizagapatam.*—Two bungalows, one range office, five rest-houses and six subordinates' residences.

*Gódávari.*—Construction of two bungalows (one at Mulagalampalli and another at Mallavaram) and four out-houses.

*Kistna.*—A rest-house at Dachapalli and range camp at eight different places.

*Kurnool*—

(1) Cooly lines at Chelama.
(2) Re-roofing of the Polardom bungalow with corrugated iron.
(3) Stables and servants' quarters near the inspection bungalow at Atmakur.
(4) Re-building the Adutla bungalow partially burnt in 1893–94.

*Bellary*—

(1) A range house at Adóni.
(2) A forester's shed at Girgu.
(3) A tanna shed at Yettmahatti.
(4) Two forest guards' huts at Chiribi and Sunkudakal.

### *Central Circle.*

*Cuddapah.*—An inspection shed at Venkatapuram.

*Chingleput.*—A rest-house at Sathiavedu.

*North Arcot.*—Two rest-houses (Satghur and Arungaldrug) and out-houses to four rest-houses.

*South Arcot*—

(1) Reconstruction of the Kovuthumalai rest-house partly burnt previously.
(2) Guards and watchers' lines at Paramandal.
(3) A shed at Merkanam.

*Tanjore.*—Three tanna huts in Kodiakadu reserved forest, and two watchers' huts in the Talanayar and Tillavilagam reserved forests, respectively.

*Salem.*—Rest-house at Anchetty.

### *Southern Circle.*

*Tinnevelly*—

(1) Re-roofing one of the bungalows at Kalivalaipil with corrugated iron.
(2) Range office and rest-house at Athithondu.
(3) A line of forest guards and watchers huts at Mundanthorai.
(4) Stables to Kannikotti and Vellanad bungalows.
(5) Stables and kitchen to Nazareth bungalow.
(6) Latrine at Mundanthorai.

*Madura.*—Three rest-houses and one forest station.

*North Coimbatore.*—A tanna shed at Karaipalayam, &c.

*South Coimbatore*—

(1) A new range office and quarters at Mettupálayam.
(2) A stable near the range officer's quarters at Esalamanthurai.
(3) Construction of inspection and camp sheds.

*North Malabar*—

(1) Oodapallam Serambi was completed.
(2) A stable for the Tirunelli bungalow and a kitchen and stable for Mukki Serambi.

*South Malabar.*—Kalserambi at Tiruvazhukunnam and Kariem.

# APPENDIX I.

## Tramway Statement.

STATEMENT showing the results of transport of wood by tramway compared with transport by country carts in Śríharikóta Range.

*Capital Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1893-94 .. .. | .. | 20,376 | 13 | 3 | By depreciation at 6 per cent. .. | .. | 1,242 | 5 | 6 |
| Add cost of 6 showels purchased | .. | 12 | 8 | 0 | „ balance of stock .. .. .. | .. | 19,463 | 5 | 9 |
| „ cost of repairing ten wagons | .. | 316 | 6 | 0 | | | | | |
| Total | .. | 20,705 | 11 | 3 | Total | .. | 20,705 | 11 | 3 |

*Revenue Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. | .. | 753 | 6 | 4 | By balance written off .. .. | .. | 3,064 | 8 | 11 |
| „ road-making, repairs, &c. .. | .. | 240 | 9 | 5 | | | | | |
| „ interest at 4 per cent. .. .. | .. | 828 | 3 | 8 | | | | | |
| „ depreciation at 6 per cent. .. | .. | 1,242 | 5 | 6 | | | | | |
| Total | .. | 3,064 | 8 | 11 | Total | .. | 3,064 | 8 | 11 |

*Work done*—2,414 tons of fuel carried over 5¾ miles = 13,880 ton miles.
*Actual cost of work*—13,880 ton miles at about As. 3-7 per mile = Rs. 3,064-8-11.
*Estimated cost of carting*—13,880 ton miles at As. 4-3 per mile = Rs. 3,660-14-5.

*N.B.*—The increase in the length of the tramway over that of previous year is due to 1¼ miles of the plant received last year from North Arcot—

ABSTRACT.

| Year. | Profit. Rs. | A. | P. | Loss. Rs. | A. | P. |
|---|---|---|---|---|---|---|
| 1889-90 .. .. .. .. .. .. .. .. | .. | | | 829 | 15 | 11 |
| 1890-91 .. .. .. .. .. .. .. .. | .. | | | 701 | 12 | 9 |
| 1891-92 .. .. .. .. .. .. .. .. | .. | | | 1,063 | 15 | 9 |
| 1892-93 .. .. .. .. .. .. .. .. | 132 | 15 | 1 | .. | | |
| 1893-94 .. .. .. .. .. .. .. .. | 905 | 0 | 1 | .. | | |
| 1894-95 .. .. .. .. .. .. .. .. | 596 | 5 | 6 | .. | | |
| Total .. | 1,634 | 4 | 8 | 2,595 | 12 | 5 |
| Net loss up to the end of 30th June 1895 .. | .. | | | 961 | 7 | 9 |

## Casuarina Plantation Range.

*Capital Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1893-94 .. .. | .. | 14,971 | 9 | 9 | By depreciation at 6 per cent. .. | .. | 898 | 4 | 3 |
| | | | | | Balance of stock .. .. .. | .. | 14,073 | 5 | 6 |
| Total | .. | 14,971 | 9 | 9 | Total | .. | 14,971 | 9 | 9 |

*Revenue Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. | .. | 189 | 4 | 7 | By balance written off .. .. | .. | 1,686 | 6 | 4 |
| „ interest at 4 per cent. .. | .. | 598 | 13 | 6 | | | | | |
| „ depreciation at 6 per cent. .. | .. | 898 | 4 | 3 | | | | | |
| Total | .. | 1,686 | 6 | 4 | Total | .. | 1,686 | 6 | 4 |

*Work done*—1,323-15 tons of casuarina wood carried over 4 miles = 5,293½ ton miles.
*Actual cost of work*—5,293½ ton miles at As. 5-1 per mile = Rs. 1,686-6-4.
*Estimated cost of carting*—5,293½ ton miles at As. 5-6 per mile = Rs. 1,832-0-5.

*N.B.*—The increase in the length of tramway over that of previous year is due to 1¼ miles of the plant received from North Arcot—

ABSTRACT.

| Years. | Profit. Rs. | A. | P. | Loss. Rs. | A. | P. |
|---|---|---|---|---|---|---|
| 1885-86 .. .. .. .. .. .. .. | 1,070 | 10 | 9 | .. | | |
| 1886-87 .. .. .. .. .. .. .. | 2,610 | 13 | 3 | .. | | |
| 1887-88 .. .. .. .. .. .. .. | .. | | | 569 | 14 | 1 |
| 1888-89 .. .. .. .. .. .. .. | 2,998 | 10 | 0 | .. | | |
| 1889-90 .. .. .. .. .. .. .. | .. | | | 164 | 12 | 9 |
| 1890-91 .. .. .. .. .. .. .. | 3,479 | 1 | 5 | .. | | |
| 1891-92 .. .. .. .. .. .. .. | 2,297 | 4 | 8 | .. | | |
| 1892-93 .. .. .. .. .. .. .. | 2,799 | 13 | 9 | .. | | |
| 1893-94 .. .. .. .. .. .. .. | 303 | 9 | 7 | .. | | |
| 1894-95 .. .. .. .. .. .. .. | 145 | 10 | 1 | .. | | |
| Total .. | 15,705 | 9 | 6 | 734 | 10 | 10 |
| Net profit up to the end of 30th June 1895 .. | 14,970 | 14 | | .. | | |

## *Cuddapah District.*

*Capital Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1893–94 .. .. .. | | 12,341 | 9 | 0 | By depreciation at 6 per cent. .. .. | | 740 | 7 | 10 |
| | | | | | „ balance of stock .. .. .. | | 11,601 | 1 | 2 |
| Total .. | | 12,341 | 9 | 0 | Total .. | | 12,341 | 9 | 0 |

*Revenue Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | | 197 | 14 | 5 | By received from contractor for trucking out 1,178 tons of fuel .. .. .. | | 520 | 10 | 0 |
| „ road repairs .. .. .. .. | | 81 | 3 | 0 | | | | | |
| „ depreciation .. .. .. .. | | 740 | 7 | 10 | By balance written off .. .. .. | | 992 | 9 | 10 |
| „ interest at 4 per cent. .. .. .. | | 493 | 10 | 7 | | | | | |
| Total .. | | 1,513 | 3 | 10 | Total .. | | 1,513 | 3 | 10 |

*Work done*—1,178 tons of fuel carried over 1½ miles = 1,472½ ton miles.

| | Rs. | A. | P. |
|---|---|---|---|
| *Actual carrying charge of carrying*—1,472½ ton miles at Re. 1-0-5 = .. .. .. | 1,513 | 3 | 10 |
| *Estimated cost by carts*—1,472½ ton miles at Re. 1 = .. .. .. .. .. .. | 1,472 | 8 | 0 |
| Loss = .. | 40 | 11 | 10 |

Abstract.

| Year. | Profit. Rs. A. P. | Loss. Rs. A. P. |
|---|---|---|
| 1892–93 .. .. .. .. .. .. .. .. | .. | 2,892 12 3 |
| 1893–94 .. .. .. .. .. .. .. .. | .. | 539 8 9 |
| 1894–95 .. .. .. .. .. .. .. .. | .. | *40 11 10 |
| Loss .. | | 3,473 0 10 |

* Twice the usual quantity of wood trucked this year.

## *South Coimbatore District.*

**Statement showing the results of transport of timber by tramway compared with transport by country carts on the Anamalai hills in the South Coimbatore district during 1894–95—*vide* Board's Proceedings, Forest No. 274, dated 25th April 1894.**

*Capital Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1893–94 .. .. .. | | 52,897 | 1 | 8 | By depreciation at 6 per cent. .. .. | | 3,197 | 5 | 6 |
| „ cost of painting the tramway trucks.. | | 158 | 12 | 4 | „ balance of stock .. .. .. | | 50,091 | 11 | 6 |
| „ repairs to plant .. .. .. .. | | 233 | 3 | 0 | | | | | |
| Total .. | | 53,289 | 1 | 0 | Total .. | | 53,289 | 1 | 0 |

*Revenue Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | | 4,321 | 3 | 1 | By balance written off .. .. .. | | 9,721 | 15 | 7 |
| „ depreciation at 6 per cent. .. .. | | 3,197 | 5 | 6 | | | | | |
| „ interest at 4 per cent. .. .. .. | | 2,131 | 9 | 0 | | | | | |
| „ repairs to roadway .. .. .. | | 71 | 14 | 0 | | | | | |
| Total .. | | 9,721 | 15 | 7 | Total .. | | 9,721 | 15 | 7 |

*Work done*—1,627 tons (5,206$\frac{5}{25}$ candies or 65,079 cubic feet) of timber moved over, four miles, 6,508 ton miles.

| | Rs. | A. | P. | Rs. | A. | P. |
|---|---|---|---|---|---|---|
| *Actual charge of carrying*—6,508 ton miles at Re. 1-7-11 per ton mile = .. .. .. | | | | 9,721 | 15 | 7 |
| *Estimated cost by carts*—6,508 ton miles at Re. 1-0-8 = .. .. .. | 6,779 | 2 | 8 | | | |
| Annual cost of maintaining cart road before construction of tramway (now saved) .. .. .. .. .. .. .. .. | 1,200 | 0 | 0 | | | |
| | | | | 7,979 | 2 | 8 |
| Loss .. | | | | 1,742 | 12 | 11 |

Abstract.

| Year. | Profit. Rs. A. P. | Loss. Rs. A. P. | —— |
|---|---|---|---|
| 1889–90 .. .. .. .. | .. | 4,155 2 7 | The rate of Re. 1-0-8 per ton of 40 cubic feet given in the statement in order to arrive at the estimated cost of carting is the rate which was actually paid prior to the construction of the tramway. |
| 1890–91 .. .. .. .. | .. | 3,048 9 5 | |
| 1891–92 .. .. .. .. | .. | 4,710 13 9 | |
| 1892–93 .. .. .. .. | .. | 4,718 4 5 | |
| 1893–94 .. .. .. .. | .. | 2,392 3 5 | |
| 1894–95 .. .. .. .. | .. | 1,742 12 11 | |
| Total .. | .. | 20,767 14 6 | |

1 candy=12½ cubic feet. 1 ton = 40 cubic feet.

## ANNUAL FORM No. 59-A.

*Forest Department, Madras Presidency.*

## AREA of Reserved Forests, 1894–95.

| District. | Area on the 1st July 1894. | | Added during the year. | Excluded or transferred to other heads. | Area on 30th June 1895. | |
|---|---|---|---|---|---|---|
| | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. |
| *Northern Circle.* | | | | | | |
| Ganjám .. .. .. .. .. | 84,816 | 132·52 | 1,938 | .. | 86,754 | 135·55 |
| Vizagapatam .. .. .. .. | 18,753 | 29·30 | 18,678 | .. | 37,431 | 58·48 |
| Gódávari .. .. .. .. | 318,668 | 497·92 | 14,550 | .. | 333,218 | 520·65 |
| Kistna .. .. .. .. .. | 401,115 | 626·74 | 11,981 | 1,508 | 411,588 | 643·10 |
| Kurnool .. .. .. .. | 1,109,714 | 1,733·93 | 2,292 | .. | 1,112,006 | 1,737·50 |
| Bellary .. .. .. .. .. | 182,609 | 285·33 | 47,931 | 104 | 230,436 | 360·05 |
| Anantapur .. .. .. .. | 193,165 | 301·82 | 50,104 | 81 | 243,188 | 379·98 |
| Total .. | 2,308,840 | 3,607·56 | 147,474 | 1,693 | 2,454,621 | 3,835·34 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. | 770,964 | 1,204·63 | 29,036 | 38 | 799,962 | 1,249·94 |
| Nellore .. .. .. .. .. | 219,254 | 342·58 | 47,620 | .. | 266,874 | 416·99 |
| Chingleput .. .. .. .. | 108,053 | 168·83 | 18,176 | .. | 126,229 | 197·23 |
| North Arcot .. .. .. .. | 599,563 | 936·81 | 19,039 | 434 | 618,168 | 965·88 |
| South Arcot .. .. .. .. | 260,685 | 407·32 | 36,603 | .. | 297,288 | 464·51 |
| Salem .. .. .. .. .. | 657,096 | 1,026·71 | 47,308 | 7,478 | 696,926 | 1,088·94 |
| Trichinopoly .. .. .. .. | 121,966 | 190·57 | 850 | .. | 122,816 | 191·90 |
| Tanjore .. .. .. .. .. | 12,160 | 19· | .. | .. | 12,160 | 19·00 |
| Total .. | 2,749,741 | 4,296·45 | 196,832 | 7,950 | 2,940,423 | 4,594·44 |
| *Southern Circle.* | | | | | | |
| South Canara .. .. .. .. | 67,799 | 105·93 | 4,996 | .. | 72,795 | 113·74 |
| Malabar, North .. .. .. | 96,081 | 150·13 | 422 | .. | 96,503 | 150·78 |
| Do. South .. .. .. | 25,173 | 39·33 | .. | .. | 25,173 | 39·33 |
| Nilgiris .. .. .. .. .. | 159,081 | 248·56 | 68,187 | .. | 227,268 | 355·10 |
| Coimbatore, North .. .. .. | 536,036 | 837·55 | 13,824 | .. | 549,860 | 859·15 |
| Do. South .. .. .. | 362,261 | 566·03 | .. | .. | 362,261 | 566·03 |
| Madura .. .. .. .. .. | 335,504 | 524·22 | 11,381 | .. | 346,885 | 542·00 |
| Tinnevelly .. .. .. .. | 262,920 | 410·81 | .. | .. | 262,920 | 410·81 |
| Total .. | 1,844,855 | 2,882·56 | 98,810 | .. | 1,943,665 | 3,036·97 |
| Grand Total .. | 6,903,436 | 10,786·61 | 444,916 | 9,643 | 7,338,709 | 11,466·73 |

## Annual Form No. 59-B.

*Forest Department, Madras Presidency.*

## Area of Reserved Lands, 1894–95.

| Districts. | Area on 1st July 1894. | | Added during the year. | Excluded or transferred to other heads. | Area on 1st June 1895. | |
|---|---|---|---|---|---|---|
| | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. |
| *Northern Circle.* | | | | | | |
| Ganjám .. .. .. .. .. | 281,954 | 440·55 | 2,000 | 1,941 | 282,013 | 440·65 |
| Vizagapatam .. .. .. .. | 175,597 | 274·37 | 83,665 | 19,938 | 239,324 | 373·94 |
| Gódávari .. .. .. .. | 322,200 | 503·43 | 1,150 | 15,650 | 307,700 | 480·78 |
| Kistna .. .. .. .. .. | 348,798 | 544·99 | 13,473 | 61,876 | 300,395 | 469·37 |
| Kurnool .. .. .. .. .. | 140,713 | 219·87 | 179,903 | 3,884 | 316,732 | 494·89 |
| Bellary .. .. .. .. .. | 167,815 | 262·21 | 21,840 | 59,013 | 130,642 | 204·12 |
| Anantapur .. .. .. .. | 89,585 | 139·98 | 47,181 | 51,740 | 85,026 | 132·85 |
| Total .. | 1,526,662 | 2,385·40 | 349,212 | 214,042 | 1,661,832 | 2,596·61 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. | 603,010 | 942·20 | 86,433 | 23,580 | 651,306 | 1,017·66 |
| Nellore .. .. .. .. .. | 164,726 | 257·38 | 35,783 | 50,406 | 150,103 | 234·53 |
| Chingleput .. .. .. .. | 44,968 | 70·26 | 1,657 | 19,486 | 27,139 | 42·40 |
| North Arcot .. .. .. .. | 82,612 | 129·08 | 46,114 | 19,200 | 109,526 | 170·50 |
| South Arcot .. .. .. .. | 278,843 | 435·70 | 25,893 | 47,508 | 257,228 | 401·91 |
| Salem .. .. .. .. .. | 184,881 | 288·87 | 36,057 | 56,028 | 164,910 | 257·67 |
| Trichinopoly .. .. .. .. | 31,985 | 49·97 | 1,655 | 4,728 | 28,912 | 45·17 |
| Tanjore .. .. .. .. .. | 3,402 | 5·31 | 5,418 | .. | 8,820 | 13·78 |
| Total .. | 1,394,427 | 2,178·79 | 239,010 | 235,493 | 1,397,944 | 2,184·28 |
| *Southern Circle.* | | | | | | |
| South Canara .. .. .. .. | 643,955 | 1,006·19 | 21,754 | 9,248 | 656,461 | 1,025·72 |
| Malabar, North .. .. .. | 79,074 | 123·55 | 6,501 | 5,199 | 80,376 | 125·58 |
| Do. South .. .. .. | 185,305 | 289·53 | .. | 287 | 185,018 | 289·09 |
| Nilgiris .. .. .. .. .. | 120,874 | 188·86 | 8,976 | 68,187 | 61,663 | 96·35 |
| Coimbatore, North .. .. .. | 575,005 | 898·45 | .. | 25,919 | 549,086 | 857·95 |
| Do. South .. .. .. | 16,118 | 25·18 | .. | 2,760 | 13,358 | 20·87 |
| Madura .. .. .. .. .. | 81,399 | 127·18 | 448 | 11,771 | 70,076 | 109·49 |
| Tinnevelly .. .. .. .. | 813 | 1·27 | 11,560 | 181 | 12,192 | 19·05 |
| Total .. | 1,702,543 | 2,660·21 | 49,239 | 123,552 | 1,628,230 | 2,544·10 |
| Grand Total .. | 4,623,632 | 7,224·42 | 637,461 | 573,087 | 4,688,006 | 7,324·99 |

## Annual Form No. 60.

*Forest Department, Madras Presidency.*

## Area of Plantations, 1894–95.

| Districts. | Number of plantations. | On 1st July 1894. | | Added during 1894–95. | | On 30th June 1895. | |
|---|---|---|---|---|---|---|---|
| | | Area. | Cost. | Area. | Cost. | Total area. | Total cost. |
| *Regular plantations.* | | ACS. | RS. | ACS. | RS. | ACS. | RS. |
| Northern Circle — | | | | | | | |
| Ganjám .. .. .. | 1 | 68 | 3,989 | 73 | 3,232 | 141 | 7,221 |
| Vizagapatam .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Gódávari .. .. .. | 4 | 148 | 11,755 | 6 | 742 | 154 | 12,497 |
| Kistna .. .. .. .. | 15<br>(*b*) +2 | 763 | 24,875<br>(*a*)+ 126 | 562<br>(*c*)+ 31<br>(*c*)— 104 | 1,785 | 1,252 | 26,786 |
| Kurnool .. .. .. | .. | .. | . | .. | .. | .. | .. |
| Bellary .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Anantapur .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 22 | 979 | 40,745 | 568 | 5,759 | 1,547 | 46,504 |
| Central Circle — | | | | | | | |
| Cuddapah .. .. .. | 8 | 2,100 | 52,832<br>(*a*)— 3 | .. | 493 | 2,100 | 53,322 |
| Nellore .. .. .. .. | 11 | 3,018 | 2,55,553 | 90 | 1,481 | 3,108 | 2,57,034 |
| Chingleput .. .. .. | 6<br>(*a*)— 1 | 352·9 | 36,893<br>(*a*)—4,796 | .. | 772 | 352·9 | 32,869 |
| North Arcot .. .. .. | 5 | 1,035 | 1,27,480 | .. | 5,237 | 1,035 | 1,32,717 |
| South Arcot .. .. .. | 15 | 1,920·05 | 1,20,443<br>(*a*)— 380 | .. | 3,128<br>(*e*)+460 | 1,920·05 | 1,23,651 |
| Salem .. .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. .. .. | 22 | 3,754·01 | 1,04,085 | .. | 1,968 | 3,754·01 | 1,06,053 |
| Tanjore .. .. .. .. | 7 | 1,308 | 21,955 | .. | 1,256 | 1,308 | 23,211 |
| Total .. | 73 | 13,487·96 | 7,14,062 | 90 | 14,795 | 13,577·96 | 7,28,857 |
| Southern Circle — | | | | | | | |
| South Canara .. .. .. | 4 | 171·25 | 25,049<br>(*a*)— 24 | 7·63 | 423 | 178·88 | 25,448 |
| North Malabar .. .. | 1 | 41·50 | 5,569<br>(*a*)— 646 | 172 | 1,040 | 213·50 | 5,963 |
| South Malabar .. .. .. | 16 | 4,319·33 | 2,78,076 | 120 | 5,500 | 4,439·33 | 2,83,576 |
| Nilgiris .. .. .. .. | 19 | 1,970·50 | 1,24,588 | 77 | 4,236 | 2,047·50 | 1,28,824 |
| North Coimbatore .. .. | 1<br>(*d*)—97 | 97 | 35,844<br>(*d*)— 35,844 | .. | .. | .. | .. |
| South Coimbatore .. .. | 4 | 28·5 | 5,003<br>(*a*)— 23 | .. | 480 | 28·5 | 5,460 |
| Madura .. .. .. .. | 8 | 204·06 | 20,697<br>(*a*)— 28 | .. | 1,065 | 204·06 | 21,734 |
| Tinnevelly .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 53 | 6,735·14 | 4,58,261 | 376·63 | 12,744 | 7,111·77 | 4,71,005 |
| Grand Total .. | 148 | 21,202·10 | 12,13,068 | 1,034·60 | 33,298 | 22,236·73 | 12,46,366 |
| *Cultural operations.* | | | | | | | |
| Northern Circle — | | | | | | | |
| Direction .. .. .. | .. | .. | 279 | .. | 8 | .. | 287 |
| Ganjám .. .. .. | 3 | 402·50 | 2,919<br>(*a*)— 51 | .. | 274 | 402·50 | 3,142 |
| Vizagapatam .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Gódávari .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna .. .. .. .. | 6<br>(*d*)— 2 | .. | 9,393<br>(*d*)— 291 | .. | 1,100 | .. | 10,202 |
| Kurnool .. .. .. | .. | .. | 151 | .. | 5 | .. | 156 |
| Bellary .. .. .. | 4<br>(*a*) + 1 | 262 | 1,352<br>(*a*) + 9 | 78 | 473 | 340 | 1,834 |
| Anantapur .. .. .. | 6<br>(*d*) — 1 | 52·16<br>(*d*) — 3 | 966<br>(*d*) — 23 | .. | 22 | 49·16 | 965 |
| Total .. | 17 | 713·66 | 14,704 | 78 | 1,882 | 791·66 | 16,586 |

(*a*) As revised and reported by the Collector. (*b*) Newly added. (*c*) By rectification of area.
(*d*) Abandoned. (*e*) Represents pay of reserve watchers.

*Forest Department, Madras Presidency*—cont.

Area of Plantations, 1894–95—*cont.*

| Districts. | Number of plantations. | On 1st July 1894. | | Added during 1894–95. | | On 30th June 1895. | |
|---|---|---|---|---|---|---|---|
| | | Area. | Cost. | Area. | Cost. | Total area. | Total cost. |
| *Cultural operations*—cont. | | ACS. | RS. | ACS. | RS. | ACS. | RS. |
| Central Circle — | | | | | | | |
| Direction .. .. .. | .. | .. | 1,169 | .. | .. | .. | 1,169 |
| Cuddapah .. .. .. | 16 (a) + 1 | 593 | 3,900 | .. | 244 | 593 | 4,144 |
| Nellore .. .. .. .. | 9 | 932 | 5,005 | 140 | 258 | 1,072 | 5,263 |
| Chingleput .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot .. .. .. | .. | .. | .. | 1,407 | 1,944 | 1,407 | 1,944 |
| South Arcot .. .. .. | 3 | 1,326 | 1,798 (a) + 11 | .. | 41 | 1,326 | 1,850 |
| Salem .. .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly .. .. .. | 10 | Mls. 100 | 32,657 | .. | 363 | Mls. 100 | 33,020 |
| Tanjore .. .. .. | 20 | 1,155 | 2,178 | 53 | 82 | 1,208 | 2,260 |
| Total .. | 59 | 4,006 Mls. 100 | 46,718 | 1,600 | 2,932 | 5,606 Mls. 100 | 49,650 |
| Southern Circle— | | | | | | | |
| South Canara .. .. .. | .. | .. | 38 | .. | .. | .. | 38 |
| North Malabar .. .. .. | 2 | 109 | 2,218 | .. | .. | 109 | 2,218 |
| South Malabar .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Nilgiris .. .. .. | 6 | 67 | 9,037 | .. | 151 | 67 | 9,188 |
| North Coimbatore .. .. | .. | .. | .. | .. | .. | .. | .. |
| South Coimbatore .. .. | .. | .. | 508 | .. | .. | .. | 508 |
| Madura .. .. .. .. | 2 | .. | 394 (a) + 12 | .. | .. | .. | 406 |
| Tinnevelly .. .. .. | 17 | 2,739·51 | 8,036 (a) — 722 | 603 | 1,246 | 3,342·51 | 8,560 |
| Total .. | 27 | 2,915·51 | 19,521 | 603 | 1,397 | 3,518·51 | 20,918 |
| Grand Total .. | 103 | 7,635·17 Mls. 100 | 80,948 | 2,281 | 6,211 | 9,916·17 Mls. 100 | 87,154 |

(a) As revised and reported by the Collector.

## ANNUAL FORM No. 61.

*Forest Department, Madras Presidency.*

ANNUAL List of Topes and Experimental Gardens, 1894–95.

| District. | Number. | Area. | Cost | | Remarks. |
|---|---|---|---|---|---|
| | | | During year. | To end of year. | |
| *Northern Circle.* | | ACS. | RS. | RS. | |
| Ganjám .. .. .. .. | 7 | 101 | .. | 922 | |
| Vizagapatam .. .. .. | 3 | 78 | 44 | 621<br>(a) — 18 | (a) As revised and now reported by the Collector. |
| Gódávari .. .. .. .. | .. | .. | .. | .. | |
| Kistna .. .. .. .. | (b) 9 | 57 | 132 | 2,658 | (b) Two topes of four acres newly added. |
| Kurnool .. .. .. .. | (c) 32 | 182 | 47 | 9,634 | (c) Two topes were newly added; of this, one tope was taken over from the Revenue Department and the other was purchased. |
| Bellary .. .. .. .. | 31 | 243 | 183 | 1,726 | |
| Anantapur .. .. .. .. | 95 | 2,885 | 916 | 8,485 | |
| Total .. | 177 | 3,546 | 1,322 | 24,028 | |
| *Central Circle.* | | | | | |
| Cuddapah .. .. .. | 71 | 1,630 | 498 | 61,390<br>(a) — 415 | |
| Nellore .. .. .. .. | 111 | 1,752 | .. | 38,044 | |
| Chingleput .. .. .. | 10 | 98·99 | 323 | 9,571<br>(a) — 590 | |
| North Arcot .. .. .. | 71 | 1,937·86 | 515 | 44,253 | |
| South Arcot .. .. .. | 103 | 475 | 30 | 9,027 | |
| Salem .. .. .. .. | 263<br>(d) — 185 | 3,061<br>(d) — 1,208 | .. | 2,00,363 | (d) Transferred to other departments. |
| Trichinopoly .. .. .. | 17 | 77 | .. | 1,822 | |
| Tanjore .. .. .. .. | 6<br>(d) — 6 | 56<br>(d) — 56 | .. | .. | |
| Total .. | 511 | 7,823·85 | 1,366 | 3,63,465 | |
| *Southern Circle.* | | | | | |
| South Canara .. .. .. | .. | .. | .. | .. | |
| North Malabar .. .. .. | 1 | 20 | 322 | 3,927 | |
| South Malabar .. .. .. | 1 | 20 | .. | 9 | |
| Nilgiris .. .. .. .. | .. | .. | .. | .. | |
| North Coimbatore .. .. | 183 | 14,032 | 138 | 29,205 | |
| South Coimbatore .. .. .. | 23 | 267·45 | .. | 5,361<br>(a) — 111 | |
| Madura .. .. .. .. | 24 | 91 | .. | 18,893 | |
| Tinnevelly .. .. .. | 28 | 106 | 89 | 5,351 | |
| Total .. | 360 | 14,536·45 | 549 | 62,635 | |
| Grand Total .. | 1,048 | 25,906·30 | 3,237 | 4,50,128 | |

## Annual Form No. 62.

*Forest Department, Madras Presidency.*

**Area of Forest Tracts protected from fire during 1894–95.**

| District. | Up to 30th June 1894. | | During dry season of 1894–95. | | | | Total cost up to 30th June 1895. |
|---|---|---|---|---|---|---|---|
| | Area actually protected. | Total cost. | Area attempted to be protected. | Fires. | Area actually protected. | Amount expended. | |
| *Northern Circle.* | ACS. | RS. | ACS. | ACS. | ACS. | RS. | RS. |
| Ganjám .. .. .. | 127,155 | 11,342 | 137,840 | 3,231 | 134,609 | 1,344 | 12,686 |
| Vizagapatam .. .. | 66,596 | 2,495 | 50,383 | 40 | 50,343 | 453 | 2,948 |
| Gódávari .. .. | 126,307 | 5,577 | 139,266 | 7,355 | 131,911 | 1,617 | 7,194 |
| Kistna .. .. .. | 103,420 | 10,688 | 85,314 | 7,291 | 78,023 | 1,165 | 11,853 |
| Kurnool .. .. .. | 46,217 | 14,458 | 74,555 | 24,251 | 50,304 | 2,157 | 16,615 |
| Bellary .. .. .. | 67,801 | 29,615 | 80,639 | 6,916 | 73,723 | 3,323 | 32,938 |
| Anantapur .. .. | 138,071 | 18,247 | 153,981 | 835 | 153,146 | 2,226 | 20,473 |
| Total .. | 675,567 | 92,422 | 721,978 | 49,919 | 672,059 | 12,285 | 1,04,707 |
| *Central Circle.* | | | | | | | |
| Cuddapah .. .. | 475,523 | 58,100 | 528,020 | 70,063 | 457,957 | 5,260 | 63,360 |
| Nellore .. .. .. | 112,960 | 6,461 | 115,720 | 260 | 115,460 | 747 | 7,208 |
| Chingleput .. .. | 23,873 | 5,553 | 23,873 | 70 | 23,803 | 440 | 5,993 |
| North Arcot .. .. | 667,523 | 36,029 | 697,611 | 13,077 | 684,534 | 4,126 | 40,155 |
| South Arcot .. .. | 122,618 | 10,633 | 123,779 | 4,659 | 119,120 | 447 | 11,080 |
| Salem .. .. .. | 32,502 | 23,641 | 39,204 | 795 | 38,409 | 1,965 | 25,606 |
| Trichinopoly .. .. | 82,260 | 3,032 | 82,681 | 305 | 82,376 | 16 | 3,048 |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 1,517,259 | 1,43,449 | 1,610,888 | 89,229 | 1,521,659 | 13,001 | 1,56,450 |
| *Southern Circle.* | | | | | | | |
| South Canara .. .. | 16,438 | 8,569 | 23,042 | 1,144 | 21,898 | 993 | 9,562 |
| North Malabar .. .. | 32,462 | 10,998 | 95,360 | 16,236 | 79,124 | 1,547 | 12,545 |
| South Malabar .. .. | 103,574 | 21,925 | 103,694 | 620 | 103,074 | 2,455 | 24,380 |
| Nilgiris .. .. .. | 221,543 | 24,539 | 223,087 | 4,693 | 218,394 | 2,092 | 26,631 |
| North Coimbatore .. | 102,803 | 4,558 | 25,620 | 1,956 | 23,664 | 681 | 5,189 |
| South Coimbatore .. | 56,969 | 18,482 | 57,970 | 4,858 | 53,112 | 2,562 | 21,044 |
| Madura .. .. .. | 214,964 | 50,773 | 218,734 | 7,174 | 211,560 | 4,043 | 54,816 |
| Tinnevelly .. .. | 96,112 | 34,103 | 106,239 | 11,487 | 94,752 | 2,686 | 36,789 |
| Total .. | 844,865 | 173,947 | 853,746 | 48,168 | 805,578 | 17,009 | 1,90,956 |
| Grand Total .. | 3,037,691 | 409,818 | 3,186,612 | 187,316 | 2,999,296 | 42,295 | 4,52,113 |

## Annual Form No. 63.

*Forest Department, Madras Presidency.*

### Prosecution for breaches of Forest Rules during 1894–95.

| Districts. | Cases pending from 1893–94. | New cases of the year. | | | | | Total cases. | Disposed of during the year. | | | | | | | | | | Cases pending at close of the year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire. | Unauthorised felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. | | Acquittals. | | Compounded. | | Withdrawn. | | Total. | | |
| | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | | | | | | | | | | | | | | | | | | |
| Ganjám .. .. .. | 83 | .. | 291 | 86 | 25 | 402 | 485 | 149 | 368 | 39 | 83 (a) 57 | 177 | 482 | 68 | 181 | 433 | 1,171 | 52 |
| Vizagapatam .. .. .. | (b) 13 | 5 | 219 | 45 | 59 | 328 | 341 | 110 | 397 | 22 | 114 | 104 | 370 | 15 | 62 | 251 | 943 | 90 |
| Gódávari .. .. .. | 22 | .. | 79 | 15 | 43 | 137 | 159 | 66 | 133 | 17 | 95 | 37 | 48 | 7 | 7 | 127 | 283 | 32 |
| Kistna .. .. .. | 279 | 1 | 294 | 262 | 56 | 613 | 892 | 90 | 396 | 30 | 158 | 384 | 1,123 | 110 | 473 | 614 | 2,150 | 278 |
| Kurnool .. .. .. | 58 | 3 | 319 | 111 | 55 | 488 | 546 | 179 | 527 | 51 | 142 (a) 45 | 166 | 537 | 47 | 115 | 443 | 1,366 | 103 |
| Bellary .. .. .. | 13 | 1 | 175 | 81 | 6 | 263 | 276 | 108 | 388 | 25 | 78 | 120 | 338 | 10 | 60 | 263 | 864 | 13 |
| Anantapur .. .. .. | 24 | .. | 183 | 115 | 19 | 317 | 341 | 174 | 405 | 40 | 137 (a) 66 | 120 | 307 | .. | .. | 334 | 915 | 7 |
| Total .. | 492 | 10 | 1,560 | 715 | 263 | 2,548 | 3,040 | 876 | 2,614 | 224 | 975 | 1,108 | 3,205 | 257 | 898 | 2,465 | 7,692 | 575 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Cuddapah .. .. .. | 122 | 4 | 204 | 195 | 78 | 481 | 603 | 235 | 479 | 69 | 129 (a) 33 | 154 | 245 | 104 | 329 | 562 | 1,215 | 41 |
| Nellore .. .. .. | 25 | .. | 98 | 111 | 24 | 233 | 258 | 119 | 211 | 21 | 130 | 59 | 198 | 24 | 104 | 223 | 643 | 35 |
| Chingleput .. .. .. | 6 | .. | 133 | 76 | 38 | 247 | 253 | 26 | 72 | 5 | 15 (a) 11 | 178 | 422 | 20 | 43 | 229 | 563 | 24 |
| North Arcot .. .. | 74 | 4 | 367 | 384 | 45 | 800 | 874 | 138 | 373 | 35 | 130 | 584 | 1,420 | 29 | 73 | 786 | 1,996 | 88 |
| South Arcot .. .. | 207 | 3 | 511 | 544 | 141 | 1,199 | 1,406 | 260 | 782 | 36 | 107 (a) 65 | 822 | 2,441 | 73 | 92 | 1,191 | 3,487 | 215 |
| Salem .. .. .. | 62 | 28 | 634 | 422 | 73 | 1,157 | 1,219 | 643 | 2,058 | 126 | 528 | 323 | 1,153 | 45 | 169 | 1,137 | 3,908 | 82 |
| Trichinopoly .. .. | 34 | 1 | 86 | 462 | 62 | 611 | 645 | 157 | 537 | 33 | 114 (a) 33 | 364 | 1,076 | 28 | 94 | 582 | 1,854 | 63 |
| Tanjore .. .. .. | 8 | .. | 34 | 12 | 5 | 51 | 59 | 16 | 49 | 6 | 40 (a) 2 | 15 | 41 | 8 | 16 | 45 | 148 | 14 |
| Total .. | 538 | 40 | 2,067 | 2,206 | 466 | 4,779 | 5,317 | 1,594 | 4,561 | 331 | 1,337 | 2,499 | 6,996 | 331 | 920 | 4,755 | 13,814 | 562 |

(a) Concerned in cases convicted.

(b) Reported to be the correct figure.

## ANNUAL FORM No. 63.—*cont.*

*Forest Department, Madras Presidency*—cont.

Prosecution for breaches of Forest Rules during 1894-95—*cont.*

| Districts. | Cases pending from 1893-94. | NEW CASES OF THE YEAR. | | | | | Total cases. | DISPOSED OF DURING THE YEAR. | | | | | | | | | | Cases pending at close of the year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire. | Unauthorised felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. | | Acquittals. | | Compounded. | | Withdrawn. | | Total. | | |
| | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | |
| South Canara .. .. | 418 | 6 | 764 | 42 | 165 | 977 | 1,395 | 366 | 474 | 86 | 164<br>(a) 46 | 783 | 956 | 77 | 101 | 1,314 | 1,741 | 81 |
| North Malabar .. .. | 12 | 7 | 25 | 29 | 56 | 117 | 129 | 55 | 81 | 9 | 28<br>(a) 6 | 37 | 76 | 10 | 73 | 111 | 264 | 18 |
| South Malabar .. .. | 12 | .. | 36 | .. | 13 | 49 | 61 | 32 | 36 | 20 | 36<br>(a) 3 | 1 | 1 | 6 | 9 | 59 | 85 | 2 |
| Nilgiris .. .. .. | 18 | 1 | 76 | 47 | 11 | 135 | 153 | 35 | 97 | 2 | 9<br>(a) 5 | 89 | 289 | 13 | 44 | 139 | 444 | 14 |
| North Coimbatore .. .. | 19 | 2 | 55 | 146 | 14 | 217 | 236 | 53 | 199 | 18 | 114 | 131 | 397 | 2 | 10 | 204 | 720 | 32 |
| South Coimbatore .. .. | 30 | 2 | 129 | 125 | 25 | 281 | 311 | 61 | 211 | 19 | 64 | 189 | 681 | 24 | 77 | 293 | 1,033 | 18 |
| Madura .. .. .. | 6 | 9 | 73 | 70 | 12 | 164 | 170 | 63 | 293 | 16 | 67 | 22 | 53 | 14 | 27 | 115 | 440 | 55 |
| Tinnevelly .. .. .. | 59 | 2 | 308 | 274 | 32 | 616 | 675 | 152 | 354 | 25 | 61<br>(a) 33 | 250 | 747 | 170 | 477 | 597 | 1,672 | 78 |
| Total .. | 574 | 29 | 1,466 | 733 | 328 | 2,556 | 3,130 | 819 | 1,745 | 195 | 636 | 1,502 | 3,200 | 316 | 818 | 2,832 | 6,399 | 298 |
| Grand Total .. | 1,604 | 79 | 5,093 | 3,654 | 1,057 | 9,883 | 11,487 | 3,289 | 8,920 | 750 | 2,948 | 5,109 | 13,401 | 904 | 2,636 | 10,052 | 27,905 | 1,435 |

(a) Concerned in cases convicted.

ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Northern Circle.*

SUMMARY of Revenue of the different districts for the forest year 1894–95.

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | |
| (*a*) Timber .. .. .. | .. | 5,617 | 21 | 1 | 110 | 8,272 | 671 | 4 | 14,696 |
| (*b*) Firewood and charcoal .. | .. | 1 | 212 | .. | 1,105 | 313 | 6,988 | .. | 8,619 |
| (*c*) Bamboos .. .. .. | .. | .. | 35 | .. | .. | .. | .. | .. | 35 |
| (*d*) Sandal-wood .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Grass and other minor produce .. .. .. | 127 | .. | 45 | .. | 38 | 113 | 1,796 | 17 | 2,136 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | |
| (*a*) Timber .. .. .. | .. | 10,547 | 2,964 | 32,388 | 18,732 | 36,406 | 11,976 | 7,752 | 1,20,765 |
| (*b*) Firewood and charcoal .. | .. | 9,630 | 10,636 | 8,851 | 13,882 | 11,857 | 7,722 | 3,812 | 66,390 |
| (*c*) Bamboos .. .. | .. | 7,529 | 6,016 | 50,753 | 618 | 15,267 | 1,851 | 174 | 82,208 |
| (*d*) Grazing and fodder grass | .. | 5,112 | 1,508 | 2,155 | 90,144 | 18,253 | 5,506 | 4,903 | 1,27,581 |
| (*e*) Other minor produce .. | .. | 817 | 6,156 | 2,315 | 12,968 | 54,673 | 31,202 | 51,247 | 1,59,378 |
| III. Confiscated drift and waif-wood. | .. | 1,067 | 82 | 2,561 | 324 | 3,680 | 81 | 103 | 7,898 |
| IV. Revenue from forests not managed by Government— | | | | | | | | | |
| V. Miscellaneous— | | | | | | | | | |
| (*a*) Fines and forfeitures .. | .. | 214 | 1 | 20 | .. | .. | 33 | 10 | 278 |
| (*b*) Refunds .. .. .. | .. | .. | .. | .. | 2 | .. | — 3 | .. | — 1 |
| (*c*) Other sources .. .. | .. | 6,447 | 722 | 1,605 | 4,305 | 2,745 | 2,275 | 1,261 | 19,360 |
| Total, Receipts .. | 127 | 46,981 | 28,398 | 1,00,649 | 1,42,228 | 1,51,579 | 70,098 | 69,283 | 6,09,343 |

MADRAS,
27th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Central Circle.*

SUMMARY of Revenue of the different districts for the forest year 1894–95.

| Budget heads. | Direction. | Cuddapah. | Nellore. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. .. | .. | 16,180 | 87 | .. | 2,050 | 96 | 801 | .. | .. | 19,214 |
| (*b*) Firewood and charcoal .. | .. | 738 | 23,938 | 73 | 18,927 | 2,316 | 23,284 | 22,148 | .. | 91,424 |
| (*c*) Bamboos .. | .. | 68 | .. | .. | 808 | 1 | 52 | .. | .. | 929 |
| (*d*) Sandal-wood .. | .. | .. | .. | .. | 26 | 31 | 71 | .. | .. | 128 |
| (*e*) Grass and other minor produce. | .. | 1,069 | 976 | .. | .. | .. | .. | 20 | .. | 2,065 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | |
| (*a*) Timber .. | .. | 13,778 | 11,168 | 2,801 | 2,474 | 5,481 | 10,997 | 8,954 | 1,256 | 56,909 |
| (*b*) Firewood and charcoal .. | .. | 24,976 | 6,321 | 3,715 | 19,142 | 26,227 | 39,084 | 5,849 | 4,276 | 1,29,590 |
| (*c*) Bamboos .. | .. | 7,692 | 66 | 180 | 26,870 | 2,473 | 37,868 | 2,819 | 382 | 78,350 |
| (*d*) Grazing and fodder grass.. | .. | 17,868 | 23,759 | 6,826 | 26,951 | 25,792 | 24,164 | 11,500 | 498 | 1,37,358 |
| (*e*) Other minor produce .. | .. | 1,00,276 | 12,286 | 6,409 | 52,465 | 24,485 | 41,518 | 11,905 | 2,873 | 2,52,217 |
| III. Confiscated drift and waif-wood .. .. | .. | 325 | 66 | 85 | 224 | 436 | 414 | 60 | 20 | 1,630 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | | |
| (*a*) Fines and forfeitures .. .. | .. | 28 | .. | .. | 9 | 30 | 34 | 263 | .. | 364 |
| (*b*) Refunds .. .. | .. | .. | .. | .. | .. | 6 | 969 | .. | .. | 975 |
| (*c*) Other sources .. | .. | 1,081 | 1,406 | 903 | 6,101 | 11,387 | 3,095 | 2,294 | 126 | 26,393 |
| Total Receipts .. | .. | 1,84,079 | 80,073 | 20,992 | 1,56,047 | 98,761 | 1,82,351 | 65,812 | 9,431 | 7,97,546 |

MADRAS,
19th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Southern Circle.*

SUMMARY of Revenue of the different districts for the forest year 1894–95.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 14,649 | 315 | 42,746 | 4,281 | 11,249 | 25,434 | 53,577 | 6,417 | 1,58,668 |
| (*b*) Firewood and charcoal .. | .. | 16,068 | 15 | 5,913 | 2,911 | 4,837 | 14 | 39 | 4,678 | 34,475 |
| (*c*) Bamboos .. | .. | .. | 12 | 149 | 212 | 2 | 5 | 1,698 | 4 | 2,082 |
| (*d*) Sandal-wood .. | .. | 5,271 | 36,170 | .. | .. | .. | .. | .. | .. | 41,441 |
| (*e*) Grass and other minor produce. | .. | 2,429 | 505 | 4,470 | 7 | 14 | 491 | 314 | 9,252 | 17,482 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | |
| (*a*) Timber .. | .. | 4,366 | 2,665 | 6,523 | 3,081 | 2,781 | 1,676 | 4,056 | 788 | 25,936 |
| (*b*) Firewood and charcoal .. | .. | 1,402 | 7,041 | 9,925 | 8,180 | 40,957 | 135 | 4,128 | 7,194 | 78,960 |
| (*c*) Bamboos .. | .. | 2,917 | 8,089 | 4,408 | 2,383 | 532 | 326 | 910 | 1,570 | 21,135 |
| (*d*) Grazing and fodder grass.. | .. | 8,200 | 32,707 | 7,378 | 2,856 | 6,347 | 1,675 | 215 | 3,976 | 63,354 |
| (*e*) Other minor produce. .. | .. | 1,864 | 18,225 | 4,414 | 21,820 | 18,981 | 1,958 | 655 | 18,201 | 86,118 |
| III. Confiscated drift and waif-wood .. .. | .. | 71 | 417 | 402 | 514 | 338 | 1,300 | 24 | 627 | 3,693 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous—. | | | | | | | | | | |
| (*a*) Fines and forfeitures .. .. | .. | .. | 38 | 50 | 213 | 109 | .. | 90 | 270 | 770 |
| (*b*) Refunds .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Other sources .. | 42 | 4,227 | 4,913 | 3,679 | 2,380 | 3,197 | 3,622 | 9,592 | 4,527 | 36,179 |
| Total Receipts .. | 42 | 61,464 | 1,11,112 | 90,057 | 48,838 | 89,344 | 36,634 | 75,298 | 57,504 | 5,70,293 |

MADRAS,
19th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Northern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1894-95.

| Expenditure. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | |
| (*a*) Timber .. .. | .. | 868 | 81 | .. | 9 | 3,709 | 229 | 1 | 4,897 |
| (*b*) Firewood and charcoal .. .. | .. | 34 | 272 | .. | 210 | 316 | 5,712 | .. | 6,544 |
| (*c*) Bamboos .. .. | .. | .. | .. | .. | .. | 2 | .. | .. | 2 |
| (*d*) Sandal-wood .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Grass and other minor produce .. | .. | .. | 66 | 28 | 8 | 115 | 1,232 | .. | 1,449 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. .. .. | 5 | 4,825 | 3,011 | 8,006 | 5,864 | 8,711 | 705 | 1,595 | 32,722 |
| III. Confiscated drift and waif-wood .. .. .. | .. | 994 | .. | 874 | 49 | 432 | .. | 2 | 2,351 |
| IV. Revenue from forests not managed by Government .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests and payments to share-holders in forests managed by Government .. .. | .. | .. | .. | .. | .. | .. | 10,000 | .. | 10,000 |
| VI. Live and dead-stock— | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | 1,800 | 1,700 | 1,600 | .. | 1,600 | .. | .. | 6,700 |
| (*b*) Feed and keep of cattle .. .. | 955 | 1,100 | 165 | 132 | .. | 62 | .. | .. | 2,414 |
| (*c*) Plant, tools and instruments .. | .. | 255 | 344 | 314 | 390 | 652 | 33 | 148 | 2,136 |
| VII. Communications and buildings— | | | | | | | | | |
| (*a*) Roads and bridges.. | .. | 1,856 | 39 | 216 | 4,022 | 642 | 583 | .. | 7,358 |
| (*b*) Buildings .. .. | 553 | 776 | 1,301 | 3,206 | 1,272 | 3,313 | 836 | 1,060 | 12,317 |
| (*c*) Other works .. | .. | 28 | 35 | .. | 648 | 21 | .. | .. | 732 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | |
| (*a*) Demarcation .. | .. | 837 | 885 | 1,053 | 2,141 | 1,260 | 1,630 | 555 | 8,361 |
| (*b*) Compensation for land and rights .. | .. | 96 | 621 | 1,251 | .. | 171 | 981 | 72 | 3,192 |
| (*c*) Surveys .. .. | .. | 994 | 369 | 371 | 1,546 | 1,096 | 506 | 1,345 | 6,227 |
| (*d*) Working plans .. | .. | .. | .. | .. | .. | .. | 2 | .. | 2 |
| (*e*) Sowing and planting. | 8 | 3,506 | 44 | 742 | 3,017 | 52 | 656 | 938 | 8,963 |
| (*f*) Protection from fire. | .. | 1,344 | 453 | 1,617 | 1,165 | 2,157 | 3,323 | 2,226 | 12,285 |
| (*g*) Other works .. | .. | 1,031 | 2 | .. | 9,913 | 7 | 2,336 | 796 | 14,085 |
| IX. Miscellaneous— | | | | | | | | | |
| (*a*) Refunds .. .. | .. | 11 | 15 | 992 | 4,909 | 196 | 623 | 260 | 7,006 |
| (*b*) Law charges .. | 53 | .. | .. | 65 | 230 | .. | 1 | .. | 349 |
| (*c*) Other charges .. | 24 | 31 | 22 | 77 | 832 | 7 | 74 | .. | 1,067 |
| Total, A.—Conservancy and Works. | 1,598 | 20,386 | 9,425 | 20,544 | 36,225 | 24,521 | 29,462 | 8,998 | 1,51,159 |

MADRAS,
5th September 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Central Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1894–95.

| Budget heads. | Direction. | Cuddapah. | Nellore. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 7,383 | 7 | .. | 821 | 21 | 917 | .. | .. | 9,149 |
| (*b*) Firewood and charcoal ... | .. | 1,807 | 12,063 | 46 | 7,025 | 503 | 15,666 | 10,120 | .. | 47,230 |
| (*c*) Bamboos .. | .. | 13 | .. | .. | 477 | .. | 38 | .. | .. | 528 |
| (*d*) Sandal-wood .. | .. | .. | .. | .. | 12 | .. | 369 | .. | .. | 381 |
| (*e*) Grass and other minor produce .. | .. | 485 | 2,759 | .. | .. | .. | .. | 7 | .. | 3,251 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. | 5 | 8,543 | 409 | 1,866 | 120 | 2,225 | 9,269 | 2,319 | 445 | 25,201 |
| III. Confiscated, drift and waif-wood .. .. | .. | 7 | 5 | .. | 2 | 12 | 171 | ... | 29 | 226 |
| IV. Revenue from forests not managed by Government .. .. .. | ... | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests, and payments to shareholders in forests managed by Government .. .. .. | .. | .. | .. | .. | .. | .. | 10 | .. | .. | 10 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Feed and keep of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Stores, tools and plant .. | .. | 47 | 319 | .. | 49 | 4 | 594 | 190 | 21 | 1,224 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | 2,405 | .. | .. | 212 | 1,690 | — 117 | 349 | .. | 4,539 |
| (*b*) Buildings .. | .. | 2,235 | 24 | 665 | 3,794 | 1,116 | 13 | 33 | 124 | 8,004 |
| (*c*) Other works .. | .. | 5 | .. | .. | 562 | 34 | .. | .. | .. | 601 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 4,487 | 829 | 2,524 | 1,879 | 5,670 | 3,730 | 1,460 | 46 | 20,625 |
| (*b*) Compensation for land and rights .. | .. | 100 | 1 | 52 | 225 | 147 | .. | .. | .. | 525 |
| (*c*) Surveys .. | 941 | 687 | 363 | 340 | 231 | 451 | 2,766 | 155 | 215 | 6,149 |
| (*d*) Working Plans. | .. | 17 | .. | .. | .. | .. | .. | .. | .. | 17 |
| (*e*) Sowing and planting .. | .. | 1,235 | 1,739 | 1,095 | 7,696 | 3,659 | .. | 2,331 | 1,338 | 19,093 |
| (*f*) Protection from fire .. .. | .. | 5,260 | 747 | 440 | 4,126 | 447 | 1,965 | 16 | .. | 13,001 |
| (*g*) Other works .. | .. | 2,367 | 922 | 2,522 | 8,117 | 3,833 | 6,965 | 4,233 | 1,537 | 30,496 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. .. | 2 | 300 | 761 | 398 | 3,897 | 64 | 16,872 | 169 | 9 | 22,472 |
| (*b*) Law charges .. | .. | 10 | 17 | .. | 249 | — 84 | 59 | .. | .. | 251 |
| (*c*) Other charges .. | 37 | 92 | 5 | .. | 35 | 34 | 316 | 175 | 77 | 771 |
| Total A.—Conservancy and Works .. | 985 | 37,485 | 20,970 | 9,948 | 39,529 | 19,826 | 59,603 | 21,557 | 3,841 | 2,13,744 |

[redacted]RAS,
[redacted]ust 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Southern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1894–95.

| Budget heads. | Direction. | South Canara. | Nilgiris. | North Malabar. | South Malabar. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 9,792 | 1,931 | 1,967 | 6,903 | 528 | 18,832 | 1,746 | 5,338 | 47,037 |
| (*b*) Firewood and charcoal .. | .. | 2,133 | 12,721 | .. | .. | 281 | 1,540 | 1,530 | 2,773 | 20,978 |
| (*c*) Bamboos .. | .. | .. | .. | .. | 19 | 50 | 56 | 150 | .. | 275 |
| (*d*) Sandal-wood .. | .. | .. | 831 | .. | .. | 2,006 | .. | .. | .. | 2,837 |
| (*e*) Grass and other minor produce | .. | 4,287 | 962 | 288 | 171 | 316 | 3,019 | .. | .. | 9,043 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. | 5 | 7,026 | 1,532 | 363 | 19 | 7,064 | 3,728 | 2,183 | 2,586 | 24,506 |
| III. Confiscated, drift and waif-wood .. .. | .. | .. | .. | 12 | .. | 17 | 37 | 74 | 3 | 143 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests and payments to shareholders in forests managed by Government .. .. | .. | .. | 4,500 | .. | 1,120 | .. | 2,500 | .. | .. | 8,120 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | 1,900 | 1,800 | 265 | 979 | .. | 559 | .. | .. | 5,503 |
| (*b*) Feed and keep of cattle .. | .. | 493 | 2,536 | 3,024 | 9,085 | .. | 4,331 | .. | .. | 19,469 |
| (*c*) Stores, tools and plant .. | .. | 419 | 607 | 135 | 695 | 241 | 557 | 488 | 507 | 3,649 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | .. | 1,106 | 723 | 456 | 3,310 | 2,842 | 1,650 | 10,023 | 20,110 |
| (*b*) Buildings .. | .. | 114 | 1,098 | 2,358 | 1,271 | 796 | 3,221 | 1,391 | 3,573 | 13,822 |
| (*c*) Other works .. | .. | 2 | 284 | 467 | 42 | .. | 719 | 13 | 403 | 1,930 |
| VIII. Demarcations, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 420 | 2,017 | 1,302 | 807 | 4,072 | 604 | 73 | 1,140 | 10,435 |
| (*b*) Compensation for land and rights .. | .. | .. | 5 | .. | .. | .. | .. | 1,251 | .. | 1,256 |
| (*c*) Surveys .. | 58,920 | 2,921 | 398 | 695 | 1,217 | 1,206 | 140 | 396 | 1,613 | 8,586 * 58,920 |
| (*d*) Working plans. | .. | .. | 79 | .. | .. | .. | .. | .. | .. | 79 |
| (*e*) Plantations .. | .. | 423 | 4,387 | 1,362 | 5,500 | 138 | 480 | 1,065 | 1,335 | 14,690 |
| (*f*) Protection from fire .. .. | .. | 993 | 2,092 | 1,547 | 2,455 | 631 | 2,562 | 4,043 | 2,686 | 17,009 |
| (*g*) Other works .. | .. | 2,003 | 686 | 869 | 1,253 | 1,535 | 2,779 | 4,146 | 5,294 | 18,565 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. | .. | 535 | 170 | 359 | 703 | 2,191 | 505 | 14,400 | 13,263 | 32,126 |
| (*b*) Law charges .. | .. | .. | .. | .. | .. | .. | 6 | .. | 23 | 29 |
| (*c*) Other charges .. | 47 | 638 | 3,519 | 147 | 58 | 35 | 357 | 148 | 633 | 5,582 |
| Total A.—Conservancy and works .. | 52 58,920 | 34,099 | 43,261 | 15,883 | 32,753 | 24,417 | 49,374 | 34,747 | 51,193 | 2,85,779 58,920 |

* Being the survey charges debitable to Madras Forests as per telegram, dated 26th August [illegible] from the Comptroller of India Treasuries, Calcutta.

MADRAS,
5th September 1895.

(Signed) W. MICHA[illegible]
Deputy Accounta[illegible]

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Northern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1894-95.

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Brought forward, Total A. "Conservancy and works" .. | 1,598 | 20,386 | 9,425 | 20,544 | 36,225 | 24,521 | 29,462 | 8,998 | 1,51,159 |
| I. Salaries— | | | | | | | | | |
| (*a*) Conservators .. .. | 15,121 | .. | .. | .. | .. | .. | 168 | .. | 15,289 |
| (*b*) Superior officers .. | 11,558 | 8,500 | 6,852 | 9,200 | 11,370 | 13,950 | 6,007 | 7,056 | 74,493 |
| (*c*) Subordinate forest and depôt establishments.. | 1,004 | 5,405 | 2,349 | 7,352 | 7,353 | 8,022 | 5,103 | 4,724 | 41,312 |
| (*d*) Office establishments .. | 10,578 | 1,634 | 1,414 | 2,206 | 3,180 | 2,528 | 1,444 | 1,479 | 24,463 |
| (*e*) Exchange compensation allowance .. .. | 2,869 | 1,593 | 1,029 | 1,227 | 1,849 | 2,026 | 218 | .. | 10,811 |
| II. Travelling allowances— | | | | | | | | | |
| (*a*) Conservators .. .. | 4,179 | 154 | .. | .. | .. | .. | .. | .. | 4,333 |
| (*b*) Superior officers .. | 3,682 | 1,523 | 1,529 | 1,838 | 2,849 | 3,116 | 1,198 | 973 | 16,708 |
| (*c*) Subordinate forest and depôt establishments.. | 307 | 2,351 | 527 | 1,958 | 1,853 | 3,145 | 1,007 | 1,273 | 12,421 |
| (*d*) Office establishments .. | 2,454 | 496 | 209 | 456 | 1,298 | 647 | 161 | 262 | 5,983 |
| III. Contingencies— | | | | | | | | | |
| (*a*) Stationery .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. .. | 680 | 95 | 144 | 211 | 780 | 289 | 270 | 74 | 2,543 |
| (*c*) Rents, rates and taxes.. | 464 | 29 | 195 | 180 | 7 | 148 | 94 | 5 | 1,122 |
| (*d*) Pay of police guards .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. .. | 685 | 382 | 297 | 639 | 1,399 | 608 | 483 | 423 | 4,916 |
| (*f*) Sundries .. .. | 807 | 229 | 514 | 687 | 650 | 608 | 410 | 412 | 4,317 |
| Total, B.—"Establishments" .. | 54,388 | 22,391 | 15,059 | 25,954 | 32,588 | 35,087 | 16,563 | 16,681 | 2,18,711 |
| Grand Total of Expenditure .. | 55,986 | 42,777 | 24,484 | 46,498 | 68,813 | 59,608 | 46,025 | 25,679 | 3,69,870 |

MADRAS,
5th September 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Central Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1894–95.

| Budget heads. | Direction. | Cuddapah. | Nellore. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Brought forward, Total A. "Conservancy and Works" .. .. | 985 | 37,485 | 20,970 | 9,948 | 39,529 | 19,826 | 59,603 | 21,557 | 3,841 | 2,13,744 |
| I. Salaries— | | | | | | | | | | |
| (*a*) Conservators .. | 25,279 | .. | .. | .. | .. | .. | .. | .. | .. | 25,279 |
| (*b*) Superior officers .. | 12,930 | 13,600 | 8,200 | 9,800 | 6,823 | 11,420 | 14,590 | 12,354 | .. | 89,717 |
| (*c*) Subordinate forest and depôt establishments .. | 840 | 10,172 | 6,409 | 2,757 | 9,637 | 9,514 | 11,745 | 4,332 | 1,057 | 56,463 |
| (*d*) Office establishments | 11,109 | 2,781 | 2,348 | 1,389 | 2,812 | 2,510 | 2,919 | 2,224 | 790 | 28,882 |
| (*e*) Exchange compensation allowances. | 4,775 | 2,002 | 361 | 1,801 | 1,222 | 1,785 | 2,945 | 1,608 | .. | 16,499 |
| II. Travelling allowances— | | | | | | | | | | |
| (*a*) Conservators .. | 2,654 | .. | .. | .. | .. | .. | .. | .. | .. | 2,654 |
| (*b*) Superior officers .. | 4,010 | 2,737 | 1,514 | 1,379 | 1,530 | 1,434 | 2,405 | 1,740 | 119 | 16,868 |
| (*c*) Subordinate forest and depôt establishments .. | 214 | 2,104 | 1,490 | 816 | 3,070 | 2,284 | 4,254 | 1,715 | 292 | 16,239 |
| (*d*) Office establishments | 2,077 | 494 | 232 | 306 | 740 | 282 | 629 | 476 | 130 | 5,366 |
| III. Contingencies— | | | | | | | | | | |
| (*a*) Stationery .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. | 763 | 112 | 242 | 107 | 248 | 154 | 406 | 139 | 26 | 2,197 |
| (*c*) Rents, rates and taxes .. .. | .. | 61 | .. | 13 | 32 | 608 | 17 | 79 | .. | 810 |
| (*d*) Pay of police guards .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. | 512 | 493 | 232 | 338 | 1,190 | 845 | 1,534 | 442 | 160 | 5,746 |
| (*f*) Sundries .. .. | 680 | 699 | 664 | 256 | 649 | 536 | 690 | 383 | 97 | 4,654 |
| Total B.—"Establishments" .. .. | 65,843 | 35,255 | 21,692 | 18,962 | 27,953 | 31,372 | 42,134 | 25,492 | 2,671 | 2,71,374 |
| Grand Total of Expenditure .. .. | 66,828 | 72,740 | 42,662 | 28,910 | 67,482 | 51,198 | 1,01,737 | 47,049 | 6,512 | 4,85,118 |

MADRAS,
19th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency, Southern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1894–95.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Brought forward, Total A. "Conservancy and Works" .. .. | 52<br>58,920 | 43,261 | 24,417 | 49,374 | 34,747 | 51,193 | 15,883 | 32,753 | 34,099 | 2,85,779<br>58,920 |
| I. Salaries— | | | | | | | | | | |
| (*a*) Conservators .. | 16,474 | .. | .. | .. | .. | .. | .. | .. | .. | 16,474 |
| (*b*) Superior officers .. | 2,650 | 12,290 | 14,558 | 7,538 | 9,778 | 6,895 | 4,800 | 14,004 | 15,439 | 87,952 |
| (*c*) Subordinate forest and depôt establishments .. | 1,136 | 9,256 | 5,598 | 9,077 | 7,027 | 7,538 | 6,292 | 5,081 | 6,312 | 57,317 |
| (*d*) Office establishments .. .. | 7,298 | 2,759 | 3,173 | 3,187 | 2,381 | 2,986 | 2,592 | 2,082 | 3,297 | 29,755 |
| (*e*) Exchange compensation allowance. | 2,645 | 2,285 | 2,714 | 1,423 | 1,478 | 734 | 781 | 404 | 2,771 | 15,235 |
| II. Travelling allowances— | | | | | | | | | | |
| (*a*) Conservators .. | 3,315 | .. | .. | .. | .. | .. | .. | .. | .. | 3,315 |
| (*b*) Superior officers .. | 576 | 1,473 | 2,315 | 1,519 | 1,320 | 1,858 | 1,648 | 1,762 | 1,633 | 14,104 |
| (*c*) Subordinate forest and depôt establishments .. | 270 | 2,538 | 1,704 | 2,647 | 1,738 | 1,956 | 1,379 | 1,622 | 1,795 | 15,649 |
| (*d*) Office establishments .. .. | 859 | 118 | 427 | 490 | 436 | 429 | 252 | 222 | 499 | 3,732 |
| III. Contingencies— | | | | | | | | | | |
| (*a*) Stationery .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. | 394 | .. | 248 | 195 | 269 | 330 | 104 | 1 | 418 | 1,959 |
| (*c*) Rents, rates and taxes .. .. | 480 | 175 | 119 | 130 | 13 | 6 | .. | 20 | 77 | 1,020 |
| (*d*) Pay of police guards .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. | 444 | 333 | 662 | 321 | 606 | 628 | 292 | 203 | 888 | 4,377 |
| (*f*) Sundries .. .. | 582 | 444 | 268 | 457 | 159 | 410 | 584 | 333 | 485 | 3,722 |
| Total B.—"Establishments" .. .. .. | 37,123 | 31,671 | 31,786 | 26,984 | 25,205 | 23,770 | 18,724 | 25,734 | 33,614 | 2,54,611 |
| Grand Total of Expenditure .. .. | 37,175<br>58,920 | 74,932 | 56,203 | 76,358 | 59,952 | 74,963 | 34,607 | 58,487 | 67,713 | 5,40,390<br>58,920 |

MADRAS,
5th September 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 64.

*Forest Department, Madras Presidency.*

### Grand Total of the Presidency.

| Budget heads. Receipts. | Rs. | Budget heads. Expenditure—A. Conservancy and Works. | Rs. | Budget heads. Expenditure—B. Establishments. | Rs. |
|---|---|---|---|---|---|
| I. Timber and other produce removed from the forests by Government Agency— | | I. Timber and other produce removed from the forests by Government Agency— | | Brought forward, Total, A. Conservancy and Works .. .. .. | 7,09,602 |
| (*a*) Timber .. | 1,92,578 | (*a*) Timber .. .. | 61,083 | | |
| (*b*) Firewood and charcoal .. | 1,34,518 | (*b*) Firewood and charcoal .. .. | 74,752 | I. Salaries— | |
| (*c*) Bamboos .. | 3,046 | (*c*) Bamboos .. .. | 805 | (*a*) Conservators .. | 57,042 |
| (*d*) Sandalwood .. | 41,569 | (*d*) Sandalwood .. | 3,218 | (*b*) Superior officers.. | 2,52,162 |
| (*e*) Grass and other minor produce. | 21,683 | (*e*) Grass and other minor produce .. | 13,743 | (*c*) Subordinate forest and depôt establishments .. | 1,55,092 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | 2,03,610 | II. Timber and other produce removed from the forests by consumers or purchasers .. .. .. | 82,429 | (*d*) Office establishments .. .. | 83,100 |
| (*a*) Timber .. | | III. Confiscated drift and waif-wood .. .. .. | 2,720 | (*e*) Deputation and special allowances .. .. | 42,545 |
| (*b*) Firewood and charcoal .. | 2,74,940 | IV. Revenue from forests not managed by Government. | .. | II. Travelling allowances— | |
| (*c*) Bamboos .. | 1,81,693 | V. Rent of leased forests and payments to shareholders in forests managed by Government .. .. | 18,130 | (*a*) Conservators .. | 10,302 |
| (*d*) Grazing and fodder grass .. | 3,28,293 | VI. Live-stock, stores, tools and plant— | | (*b*) Superior officers.. | 47,680 |
| (*e*) Other minor produce .. | 4,97,713 | (*a*) Purchase of cattle .. | 12,203 | (*c*) Subordinate forest and depôt establishments .. | 32,309 |
| III. Confiscated drift and waif-wood .. .. | 13,221 | (*b*) Feed and keep of cattle .. .. | 21,883 | (*d*) Office establishments .. .. | 15,081 |
| IV. Revenue from forests not managed by Government .. .. | .. | (*c*) Stores, tools and plant .. .. | 7,009 | III. Contingencies— | |
| V. Miscellaneous— | | VII. Communications and buildings— | | (*a*) Stationery .. | .. |
| (*a*) Fines and forfeitures .. .. | 1,412 | (*a*) Roads and bridges.. | 32,007 | (*b*) Carriage of tents and records .. | 6,699 |
| (*b*) Refunds .. | 974 | (*b*) Buildings .. .. | 34,143 | (*c*) Rents, rates and taxes .. .. | 2,952 |
| (*c*) Other sources .. | 81,932 | (*c*) Other works .. | 3,263 | (*d*) Pay of Police guards .. .. | .. |
| | | VIII. Demarcation, improvement and extension of forests— | | (*e*) Official postage .. | 15,039 |
| | | (*a*) Demarcation .. | 39,421 | (*f*) Sundries .. .. | 12,693 |
| | | (*b*) Compensation for lands and rights. | 4,973 | | |
| | | (*c*) Surveys .. .. | 20,962 + 58,920 * | | |
| | | (*d*) Working plans .. | 98 | | |
| | | (*e*) Plantations .. | 42,746 | | |
| | | (*f*) Protection from fire. | 42,295 | | |
| | | (*g*) Other works .. | 63,146 | | |
| | | IX. Miscellaneous— | | | |
| | | (*a*) Refunds .. .. | 61,604 | | |
| | | (*b*) Law charges .. | 629 | Total, B. Establishments .. .. | 7,44,696 |
| | | (*c*) Other charges .. | 7,420 | | |
| Total, Receipts .. | 19,77,182 | Total, A. Conservancy and Works .. .. .. | 7,09,602 | Grand Total of all Expenditure .. .. .. | 14,54,298 |

* Being the survey charges debitable to Madras Forests, as per telegram, dated 26th August 1895, from the Comptroller of India Treasuries, Calcutta.

## Annual Form No. 65.

*Forest Department, Madras Presidency, Northern Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1894–95.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Northern Circle .. .. .. .. | .. | 3,524 12 1 | 3,524 12 1 | 52 15 7 | 3,530 15 1 | 3,583 14 8 | 59 2 7 | .. |
| Forest Settlement-officer, Kurnool, &c. .. .. | .. | .. | .. | .. | 40 0 0 | 40 0 0 | 40 0 0 | .. |
| Do. Bellary, &c. .. .. | .. | 75 0 0 | 75 0 0 | .. | 75 0 0 | 75 0 0 | .. | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | .. | .. | .. | 160 0 0 | 160 0 0 | 160 0 0 | .. |
| Ganjám .. .. .. .. .. .. | .. | 26,293 4 9 | 26,293 4 9 | 2,159 11 5 | 25,532 15 8 | 27,692 11 1 | 1,399 6 4 | .. |
| Vizagapatam .. .. .. .. .. .. | .. | 12,192 8 4 | 12,192 8 4 | 1,392 7 11 | 11,182 8 9 | 12,575 0 8 | 382 8 4 | .. |
| Gódávari .. .. .. .. .. .. | .. | 32,498 2 9 | 32,498 2 9 | 2,037 10 6 | 32,370 1 5 | 34,407 11 11 | 1,909 9 2 | .. |
| Kistna .. .. .. .. .. .. | .. | 48,774 2 3 | 48,774 2 3 | 5,442 13 8 | 46,743 3 7 | 52,186 1 3 | 3,411 15 0 | .. |
| Kurnool .. .. .. .. .. .. | .. | 40,045 14 8 | 40,045 14 8 | 660 4 7 | 40,368 12 1 | 41,029 0 8 | 983 2 0 | .. |
| Bellary .. .. .. .. .. .. | .. | 33,490 11 0 | 33,490 11 0 | 383 10 9 | 33,982 12 4 | 34,366 7 1 | 875 12 1 | .. |
| Anantapur .. .. .. .. .. .. | .. | 15,147 4 3 | 15,147 4 3 | 319 2 3 | 15,435 11 1 | 15,754 13 4 | 607 9 1 | .. |
| Total .. | .. | 2,12,041 12 1 | 2,12,041 12 1 | 12,448 12 8 | 2,09,422 0 0 | 2,21,870 12 8 | 9,829 0 7 | .. |

Madras,
19th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 65.

*Forest Department, Madras Presidency, Central Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1894-95.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Central Circle .. .. .. .. | .. | 944 8 3 | 944 8 3 | 32 12 7 | 940 7 11 | 973 4 6 | 28 12 3 | .. |
| Forest Settlement-officer, Salem, &c. .. .. | .. | 372 0 6 | 372 0 6 | 35 13 9 | 346 2 9 | 382 0 6 | 10 0 0 | .. |
| Do. Trichinopoly, &c. .. | .. | 141 13 0 | 141 13 0 | 17 14 0 | 130 1 0 | 147 15 0 | 6 2 0 | .. |
| Do. Nellore, &c. .. .. | .. | 371 12 8 | 371 12 8 | 29 1 6 | 374 2 8 | 403 4 2 | 31 7 6 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Cuddapah .. .. .. .. .. .. | .. | 50,936 9 10 | 50,936 9 10 | 1,427 2 8 | 50,636 11 5 | 52,063 14 1 | 1,127 4 3 | .. |
| Nellore .. .. .. .. .. .. | .. | 29,807 4 3 | 29,807 4 3 | 1,317 4 7 | 29,318 10 4 | 30,635 14 11 | 828 10 8 | .. |
| Chingleput .. .. .. .. .. .. | .. | 15,023 12 4 | 15,023 12 4 | 572 1 5 | 14,950 13 6 | 15,522 14 11 | 499 2 7 | .. |
| North Arcot .. .. .. .. .. .. | .. | 59,577 13 2 | 59,577 13 2 | 2,394 10 3 | 59,659 3 3 | 62,053 13 6 | 2,476 0 4 | .. |
| South Arcot .. .. .. .. .. .. | .. | 44,289 15 2 | 44,289 15 2 | 1,439 2 11 | 44,868 15 7 | 46,308 2 6 | 2,018 3 4 | .. |
| Salem .. .. .. .. .. .. | .. | 82,271 14 6 | 82,271 14 6 | 3,961 9 1 | 82,440 1 0 | 86,401 10 1 | 4,129 11 7 | .. |
| Trichinopoly .. .. .. .. .. .. | .. | 27,697 10 8 | 27,697 10 8 | 762 15 5 | 28,046 11 8 | 28,809 11 1 | 1,112 0 5 | .. |
| Tanjore .. .. .. .. .. .. | .. | 5,768 15 0 | 5,768 15 0 | 142 13 8 | 5,714 0 7 | 5,856 14 3 | 87 15 3 | .. |
| Total .. | .. | 3,17,204 1 4 | 3,17,204 1 4 | 12,133 5 10 | 3,17,426 1 8 | 3,29,559 7 6 | 12,355 6 2 | .. |

(Signed) W. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 65.

*Forest Department, Madras Presidency, Southern Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1894–95.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Southern Circle | .. | 6,261 10 0 | 6,261 10 0 | 46 3 0 | 6,244 12 3 | 6,290 15 3 | 29 5 3 | .. |
| Forest School, Dehra Dun | .. | .. | .. | 137 0 0 | — 100 0 0 | 37 0 0 | 37 0 0 | .. |
| Nilgiris | .. | 46,801 6 0 | 46,801 6 0 | 2,184 4 2 | 46,127 11 10 | 48,312 0 0 | 1,510 10 0 | .. |
| North Coimbatore | .. | 27,791 5 5 | 27,791 5 5 | 983 2 10 | 29,363 11 2 | 30,346 14 0 | 2,555 8 7 | .. |
| South Coimbatore | .. | 43,165 3 7 | 43,165 3 7 | 1,726 0 6 | 42,977 14 11 | 44,703 15 5 | 1,538 11 10 | .. |
| Madura | .. | 38,086 0 0 | 38,086 0 0 | 270 3 4 | 41,414 2 11 | 41,684 6 3 | 3,598 6 3 | .. |
| Tinnevelly | .. | 52,286 1 2 | 52,286 1 2 | 2,352 9 8 | 50,912 7 4 | 53,265 1 0 | 978 15 10 | .. |
| North Malabar | .. | 12,514 4 1 | 12,514 4 1 | 1,405 1 9 | 13,138 0 0 | 14,543 1 9 | 2,028 13 8 | .. |
| South Malabar | .. | 16,389 11 9 | 16,389 11 9 | 869 10 6 | 16,085 13 1 | 16,955 7 7 | 565 11 10 | .. |
| South Canara | .. | 33,514 3 3 | 33,514 3 3 | 1,399 2 3 | 33,327 4 6 | 34,726 6 9 | 1,212 3 6 | .. |
| Total | .. | 2,76,809 13 3 | 2,76,809 13 3 | 11,373 6 0 | 2,79,491 14 0 | 2,90,865 4 0 | 14,055 6 9 | .. |

Madras,
19th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## Grand Total for the Presidency.

| | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during the year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| | .. | 8,06,055 10 8 | 8,06,055 10 8 | 35,955 8 6 | 8,06,339 15 8 | 8,42,295 8 2 | 36,239 13 6 | .. |

ANNUAL FORM No. 66.

*Forest Department, Madras Presidency, Northern Circle.*

REVENUE received and Outstandings on account of revenue for the forest year 1894–95.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. |
|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. |
| Direction .. .. | Timber and other produce .. | .. | 127 3 0 | 127 3 0 | 127 3 0 | .. |
| Ganjám .. .. | Do. do. .. | 246 0 0 | 46,735 1 3 | 46,981 1 3 | 46,981 1 3 | .. |
| Vizagapatam .. .. | Do. do. .. | .. | 28,474 14 4 | 28,474 14 4 | 28,398 2 1 | 76 12 3 |
| Gódávari .. .. | Do. do. .. | .. | 1,00,957 13 6 | 1,00,957 13 6 | 1,00,648 13 6 | 309 0 0 |
| Kistna .. .. .. | Do. do. .. | 874 1 0 | 1,41,899 10 1 | 1,42,773 11 1 | 1,42,227 5 9 | 546 5 4 |
| Kurnool .. .. | Do. do. .. | 12 10 0 | 1,52,046 1 2 | 1,52,058 11 2 | 1,51,578 11 2 | 480 0 0 |
| Bellary .. .. .. | Do. do. .. | 75 14 0 | 70,662 5 1 | 70,738 3 1 | 70,098 5 1 | 639 14 0 |
| Anantapur .. .. | Do. do. .. | 6,780 0 0 | 62,503 0 6 | 69,283 0 6 | 69,283 0 6 | .. |
| | Total .. | 7,988 9 0 | 6,03,406 0 11 | 6,11,394 9 11 | 6,09,342 10 4 | 2,051 15 7 |

MADRAS,
19th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 66.

*Forest Department, Madras Presidency, Central Circle.*

Revenue received and Outstandings on account of revenue for the forest year 1894–95.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | |
| Direction .. .. | Timber and other produce.. | .. | .. | .. | .. | .. | |
| Nellore .. .. .. | Do. do. .. | 278 12 0 | 80,218 1 2 | 80,496 13 2 | 80,073 1 2 | 423 12 0 | |
| Cuddapah .. .. | Do. do. .. | 3 4 7 | 1,84,093 6 10 | 1,84,096 11 5 | 1,84,079 7 2 | 17 4 3 | |
| Chingleput .. .. | Do. do. .. | .. | 20,991 8 2 | 20,991 8 2 | 20,991 8 2 | .. | |
| North Arcot .. .. | Do. do. .. | 32,269 15 11 | 1,67,249 0 3 | 1,99,519 0 2 | 1,56,047 1 1<br>+ 57 5 2 | 43,414 9 11 | Written off under Government Order, Mis. No. 1915, dated 13th May 1895. |
| South Arcot .. .. | Do. do. .. | .. | 1,27,755 13 11 | 1,27,755 13 11 | 98,761 2 4 | 28,994 11 7 | |
| Salem .. .. .. | Do. do. .. | 657 6 6 | 1,82,420 7 0 | 1,83,077 13 6 | 1,82,350 13 8 | 726 15 10 | |
| Trichinopoly .. .. | Do. do. .. | 11,088 14 7 | 54,987 4 5 | 69,076 3 0 | 65,811 15 3*<br>(a) + 225 7 5 | 3,038 12 4 | (a) Written off under Government Order, Mis. No. 4897, dated 12th December 1894. |
| Tanjore .. .. | Do. do. .. | 232 15 9 | 9,271 13 2 | 9,504 12 11 | 9,431 0 8 | 73 12 3 | |
| | Total .. | 44,531 5 4 | 8,29,987 6 11 | 8,74,518 12 3 | 7,97,546 1 6<br>+ 282 12 7 | 76,689 14 2 | |

MADRAS,
19th August 1895.

(Signed) W. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 66.

*Forest Department, Madras Presidency, Southern Circle.*

Revenue received and Outstandings on account of revenue for the forest year 1894–95.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | |
| Direction .. .. .. | Timber and other produce .. | .. | 42 4 9 | 42 4 9 | 42 4 9 | .. | |
| Nilgiris .. .. .. | Do. do. .. | 960 1 9 | 61,862 4 6 | 62,822 6 3 | 61,463 13 6 | 1,358 8 9 | |
| North Coimbatore .. | Do. do. .. | 184 7 2 | 1,10,952 9 11 | 1,11,137 1 1 | 1,11,112 8 8<br>(a) 5 13 8 | 18 10 9 | (a) Rs. 5–13–8 written off, *vide* Board's Proceedings, Forest No. 542, dated 22nd December 1894. |
| South Coimbatore .. | Do. do. .. | 804 8 5 | 89,671 7 3 | 90,475 15 8 | 90,056 13 10<br>(b) 308 10 2 | 110 7 8 | (b) Rs. 308–10–2 written off, *vide* Government Order, No. 842, dated 28th November 1894, communicated with Board's Proceedings (Land Revenue), No. 542, dated 12th December 1894,. |
| Madura .. .. .. | Do. do. .. | 6,997 11 1 | 49,832 10 3 | 56,830 5 4 | 48,837 10 6 | 7,992 10 10 | |
| Tinnevelly .. .. | Do. do. .. | 1,491 4 3 | 8,7993 12 2 | 89,485 0 5 | 89,344 4 5<br>(c) 8 10 0 | 132 2 0 | (c) Rs. 8–10–0 written off under Government Order, Mis. No. 4541, dated 21st November 1894. |
| North Malabar .. .. | Do. do. .. | 509 7 7 | 36,632 12 6 | 37,142 4 1 | 36,633 13 5 | 508 6 8 | |
| South Malabar .. .. | Do. do. .. | .. | 75,297 10 10 | 75,297 10 10 | 75,297 10 10 | .. | |
| South Canara .. .. | Do. do. .. | 2,425 14 0 | 55,128 8 11 | 57,554 6 11 | 57,504 4 11 | 50 2 0 | |
| | Total .. | 13,373 6 3 | 5,67,414 1 1 | 5,80,787 7 4 | 5,70,293 4 10<br>+ 323 1 10 | 10,171 0 8 | |

Madras,
19th August 1895.

(Signed) W. Michael,
Deputy Accountant-General.

## Form No. 66.

Grand Total for the Presidency.

| Outstandings at commencement of year. | Value of sales and other revenues during the year. | Total. | Amount realized during year. | Balance due to the department at end of the year. | |
|---|---|---|---|---|---|
| Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | |
| 66,893 4 7 | 20,00,807 8 11 | 20,66,700 13 6 | 19,77,182 0 8<br>+ 605 14 5 | 88,912 14 5 | |

## ANNUAL FORM No. 68.

*Forest Department, Madras Presidency.*

**TREES felled by Government Agency during 1894–95.**

Selection fellings.

| Districts. | Teak. | Rose-wood. | Vengai. | Red-wood. | Sal. | Iron-wood. | Sandal-wood. | Miscella-neous. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *Northern Circle.* | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. |
| Stock at the beginning of the year .. | .. | .. | .. | .. | .. | .. | .. | (a) .. | (a) .. |
| Ganjám .. .. .. .. .. | .. | .. | .. | .. | 87 | .. | .. | .. | 87 |
| Vizagapatam .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 82 | 82 |
| Gódávari .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kurnool .. .. .. .. .. | 15 | .. | 280 | .. | .. | .. | .. | 439 | 734 |
| Bellary .. .. .. .. .. | 2,079 | .. | .. | .. | .. | .. | .. | 6,939 | 9,018 |
| Anantapur .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 3 | 3 |
| Total felled during the year .. | 2,094 | .. | 280 | .. | 87 | .. | .. | 7,463 | 9,924 |
| Total .. | 2,094 | .. | 280 | .. | 87 | .. | .. | 7,463 | 9,924 |
| Converted into logs, &c. .. .. | 2,094 | .. | 280 | .. | 87 | .. | .. | 7,463 | 9,924 |
| Balance on hand at the end of the year. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| *Central Circle.* | | | | | | | | | |
| Stock at the beginning of the year .. | .. | .. | .. | .. | .. | .. | .. | 20 | 20 |
| Cuddapah .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 522 | 522 |
| Nellore .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 22,454 | 22,454 |
| Chingleput .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | 2,832 | 2,832 |
| South do. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Salem .. .. .. .. .. | 52 | .. | .. | .. | .. | .. | 268 | 550 | 870 |
| Trichinopoly .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tanjore .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total felled during the year .. | 52 | .. | .. | .. | .. | .. | 268 | 26,358 | 26,678 |
| Total .. | 52 | .. | .. | .. | .. | .. | 268 | 26,378 | 26,698 |
| Converted into logs, &c. .. .. | 52 | .. | .. | .. | .. | .. | 268 | 26,378 | 26,698 |
| Balance on hand at the end of the year. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| *Southern Circle.* | | | | | | | | | |
| Stock at the beginning of the year .. | 9 | 8 | 12 | .. | .. | .. | .. | 158 | 187 |
| South Canara .. .. .. .. | .. | 1 | 4 | .. | .. | .. | .. | 707 | 712 |
| North Malabar .. .. .. .. | 391 | 26 | 60 | .. | .. | .. | .. | 295 | 772 |
| South do. .. .. .. .. | 44 | 91 | 8 | .. | .. | .. | .. | 615 | 758 |
| Nilgiris .. .. .. .. .. | 396 | .. | 880 | .. | .. | .. | .. | 11,141 | 12,417 |
| North Coimbatore .. .. .. | 30 | 3 | 45 | .. | 1 | .. | 647 | 1,151 | 1,877 |
| South do. .. .. .. .. | 385 | 1 | 42 | .. | .. | 15 | .. | 554 | 997 |
| Madura .. .. .. .. .. | .. | 7 | 77 | .. | .. | .. | .. | 5,565 | 5,649 |
| Tinnevelly .. .. .. .. | 50 | .. | .. | .. | .. | .. | .. | 205 | 255 |
| Total felled during the year .. | 1,296 | 129 | 1,116 | .. | 1 | 15 | 647 | 20,233 | 23,437 |
| Total .. | 1,305 | 137 | 1,128 | .. | 1 | 15 | 647 | 20,391 | 23,624 |
| Converted into logs, &c. .. .. | 1,259 | 135 | 954 | .. | 1 | 15 | 647 | 20,301 | 23,312 |
| Balance on hand at the end of the year | 46 | 2 | 174 | .. | .. | .. | .. | 90 | 312 |
| *Grand Total.* | | | | | | | | | |
| Total stock at the beginning of the year. | 9 | 8 | 12 | .. | .. | .. | .. | (a) 178 | 207 |
| Total felled during the year .. | 3,442 | 129 | 1,396 | .. | 88 | (a) 15 | 915 | 54,054 | 60,039 |
| Total .. | 3,451 | 137 | 1,408 | .. | 88 | 15 | 915 | 54,232 | 60,246 |
| Total converted into logs, &c. .. | 3,405 | 135 | 1,234 | .. | 88 | 15 | 915 | 54,142 | 59,934 |
| Total balance on hand at the end of the year .. .. .. .. | 46 | 2 | 174 | .. | .. | .. | .. | 90 | 312 |

(a) The eight trees shown in 1893-94 return as the balance at the end of the year does not exist and therefore omitted in this return.

## ANNUAL FORM No. 69.

*Forest Department, Madras Presidency.*

**STATEMENT of Timber and other produce cut and collected by Government Agency during the year 1894-95.**

| — | TIMBER. | | | | | | | | Fuel. | Bamboos. | Sandalwood. | Minor produce. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sál. | Iron wood. | Miscellaneous. | Total. | | | | |
| *Northern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Stock of the circle at the beginning of the year .. | .. | .. | .. | .. | 2,304 | .. | 411 | 2,715 | 61,008 | .. | .. | 699 |
| Ganjám .. .. .. | .. | .. | .. | .. | 5,868 | .. | 964 | 6,832 | 20 | .. | .. | .. |
| Vizagapatam .. .. .. | .. | .. | .. | .. | .. | .. | 868 | 868 | 11,885 | 8,190 | .. | 25,177 |
| Gódávari .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 19 |
| Kistna .. .. .. .. | .. | .. | .. | .. | .. | .. | 580 | 580 | 4 | .. | .. | 361 |
| Kurnool .. .. .. | 185 | .. | 3,351 | .. | .. | .. | 3,991 | 7,527 | 16,834 | 693 | .. | 233 |
| Bellary .. .. .. | 4,158 | .. | .. | .. | .. | .. | 13,878 | 18,036 | 261,064 | .. | .. | 8,953 |
| Anantapur .. .. .. | .. | .. | .. | .. | .. | .. | 60 | 60 | .. | .. | .. | .. |
| Collection during the year .. | 4,343 | .. | 3,351 | .. | 5,868 | .. | 20,341 | 33,903 | 289,807 | 8,883 | .. | 34,743 |
| Total .. | 4,343 | .. | 3,351 | .. | 8,172 | .. | 20,752 | 36,618 | 350,815 | 8,883 | .. | 35,442 |
| Sold locally in the forest .. | 3,966 | .. | .. | .. | 2,713 | .. | 15,695 | 22,374 | 151,971 | 8,240 | .. | 13,428 |
| Used departmentally, wastage written off, &c. .. .. | 29 | .. | 43 | .. | .. | .. | 483 | 555 | .. | 620 | .. | 1,123 |
| Removed to sale depôts .. | 148 | .. | 3,308 | .. | 1,627 | .. | 3,578 | 8,661 | 131,448 | .. | .. | .. |
| Total disposal .. | 4,143 | .. | 3,351 | .. | 4,340 | .. | 19,756 | 31,590 | 283,419 | 8,860 | .. | 14,551 |
| Stock in the forest on 30th June 1895 .. .. | 200 | .. | .. | .. | 3,832 | .. | 996 | 5,028 | 67,396 | 23 | .. | 20,891 |
| *Central Circle.* | | | | | | | | | | | | |
| Stock of the circle at the beginning of the year .. | .. | .. | .. | 767 | .. | .. | (a)1,358 | 2,125 | (a)563,924 | .. | .. | 13,288 |
| Cuddapah .. .. .. | .. | .. | .. | 42,662 | .. | .. | 2,025 | 44,687 | 11,968 | 640 | .. | 1,357 |
| Nellore .. .. .. | .. | .. | .. | .. | .. | .. | 454 | 454 | 196,597 | .. | .. | 8,492 |
| Chingleput .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 860 | .. | .. | .. |
| North Arcot .. .. .. | .. | .. | .. | 1,136 | .. | .. | 33,119 | 34,255 | 222,031 | 1,885 | 1 | .. |
| South Arcot .. .. .. | .. | .. | .. | .. | .. | .. | 1,468 | 1,468 | 28,782 | 29 | 7 | .. |
| Salem .. .. .. .. | 34 | .. | .. | .. | .. | .. | 1,073 | 1,107 | 204,970 | 900 | 577 | .. |
| Trichinopoly .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 232,430 | .. | .. | 208 |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Collection during the year .. | 34 | .. | .. | 43,798 | .. | .. | 38,139 | 81,971 | 897,638 | 3,454 | 585 | 10,057 |
| Total .. | 34 | .. | .. | 44,565 | .. | .. | 39,497 | 84,096 | 1,461,562 | 3,454 | 585 | 23,345 |
| Sold locally in the forest .. | .. | .. | .. | .. | .. | .. | 27,073 | 27,073 | 932,408 | 1,455 | 7 | 6,364 |
| Used departmentally, wastage written off; &c. .. .. | .. | .. | .. | .. | .. | .. | 2 | 2 | 9,618 | .. | .. | 131 |
| Removed to sale depôts .. | 34 | .. | .. | 44,565 | .. | .. | 4,263 | 48,862 | 61,881 | 1,859 | 578 | 1,117 |
| Total disposal .. | 34 | .. | .. | 44,565 | .. | .. | 31,338 | 75,937 | 1,003,907 | 3,314 | 585 | 7,612 |
| Stock in the forest on 30th June 1895 .. .. | .. | .. | .. | .. | .. | .. | 8,159 | 8,159 | 457,655 | 140 | .. | 15,733 |
| *Southern Circle.* | | | | | | | | | | | | |
| Stock of the circle at the beginning of the year .. | 11,056 | 5,175 | 6,067 | .. | .. | 213 | 75,817 | 98,328 | 422,309 | 6,314 | 120 | 336 |
| South Canara .. .. | 393 | 1,450 | 82 | .. | .. | .. | 27,044 | 28,969 | 50,522 | 784 | .. | 2,121 |
| North Malabar .. .. | 23,120 | 511 | 2,026 | .. | .. | .. | 12,530 | 38,187 | .. | 117 | .. | 2 |
| South Malabar .. .. | 19,439 | 2,387 | 588 | .. | .. | .. | 38,943 | 61,357 | 1,008 | 15,327 | .. | 109 |
| Nilgiris .. .. .. | 1,758 | .. | 21,077 | .. | .. | .. | 10,874 | 33,709 | 363,258 | .. | 878 | 2,184 |
| North Coimbatore .. .. | .. | .. | 395 | .. | .. | .. | 2,052 | 2,447 | .. | .. | 1,301 | 124 |
| South Coimbatore .. .. | 30,917 | 27 | 2,837 | .. | .. | 711 | 44,459 | 78,951 | 271,146 | 2,980 | .. | 1,884 |
| Madura .. .. .. | 117 | 128 | 2,631 | .. | .. | .. | 1,135 | 4,011 | 37,828 | 5,280 | .. | .. |
| Tinnevelly .. .. .. | 162 | .. | .. | .. | .. | .. | 7,431 | 7,593 | 274,915 | 56 | .. | 1,465 |
| Collection during the year .. | 75,906 | 4,503 | 29,636 | .. | .. | 711 | 144,468 | 255,224 | 998,677 | 24,544 | 2,179 | 7,889 |
| Total .. | 86,962 | 9,678 | 35,703 | .. | .. | 924 | 220,285 | 353,552 | 1,420,986 | 30,858 | 2,299 | 8,225 |

## Statement of Timber and other produce cut and collected by Government Agency, &c.—*cont.*

| — | Timber. | | | | | | | | Fuel. | Bamboos. | Sandalwood. | Minor produce. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sal. | Iron wood. | Miscellaneous. | Total. | | | | |
| *Southern Circle*—cont. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Sold locally in the forest .. | 35,523 | 5,890 | 28,185 | .. | .. | .. | 67,255 | 136,853 | 750,045 | 9,362 | 674 | 6,236 |
| Used departmentally, wastage written off, &c. .. | 2,082 | 133 | 38 | .. | .. | .. | 15,402 | 17,655 | 100,275 | 5,882 | 13 | 22 |
| Removed to sale depôts .. | 31,407 | 250 | 1,503 | .. | .. | 847 | 58,027 | 92,034 | 176,800 | 15,094 | 1,305 | 133 |
| Quantity on tank-beds in the Madura district omitted to be shown in the District Returns .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 45,290 | .. | .. | .. |
| Total disposal .. | 69,012 | 6,273 | 29,726 | .. | .. | 847 | 140,684 | 246,542 | 1,072,410 | 30,338 | 1,992 | 6,391 |
| Stock in the forest on 30th June 1895 .. .. | 17,950 | 3,405 | 5,977 | .. | .. | 77 | 79,601 | 107,010 | 348,576 | 520 | 307 | 1,834 |
| *Grand Total.* | | | | | | | | | | | | |
| Stock of the circles at the beginning of the year .. | 11,056 | 5,175 | 6,067 | 767 | 2,304 | 213 | 77,586 (a) | 103,168 | 1,047,241 | 6,314 | 120 | 14,323 |
| Collection during the year.. | 80,283 | 4,503 | 32,987 | 43,798 | 5,868 | 711 | 202,948 | 371,098 | 2,186,122 | 36,881 | 2,764 | 52,689 |
| Total .. | 91,339 | 9,678 | 39,054 | 44,565 | 8,172 | 924 | 280,534 | 474,266 | 3,233,363 | 43,195 | 2,884 | 67,012 |
| Sold locally in the forest .. | 39,489 | 5,890 | 28,185 | .. | 2,713 | .. | 110,023 | 186,300 | 1,834,424 | 19,057 | 681 | 26,028 |
| Used departmentally, wastage written off, &c. .. | 2,111 | 133 | 81 | .. | .. | .. | 15,887 | 18,212 | 109,893 | 6,502 | 13 | 1,276 |
| Removed to sale depôts .. | 31,589 | 250 | 4,811 | 44,565 | 1,627 | 847 | 65,868 | 149,557 | 370,129 | 16,953 | 1,883 | 1,250 |
| Quantity on tank-beds in the Madura district omitted to be shown in the District Returns .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 45,290 | .. | .. | .. |
| Total disposal .. | 73,189 | 6,273 | 33,077 | 44,565 | 4,340 | 847 | 191,778 | 354,069 | 2,359,736 | 42,512 | 2,577 | 28,554 |
| Stock in the forest on 30th June 1895 .. .. | 18,150 | 3,405 | 5,977 | .. | 3,832 | 77 | 88,756 | 120,197 | 873,627 | 683 | 307 | 38,458 |

(a) 100 cubic feet shown under timber in previous year's return has been transferred to fuel in the North Arcot district as the poles were converted into fuel.

## ANNUAL FORM No. 70.

*Forest Department, Madras Presidency.*

RECEIPTS and Issues of Timber and other produce in sale depôts during the year 1894–95.

| — | TIMBER. | | | | | | | | Fuel. | Bamboos. | Sandalwood. | Minor produce. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sál. | Ironwood. | Miscellaneous. | Total. | | | | |
| *Northern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Stock of the circle at sale depôts at the beginning of the year | 46 | .. | 601 | .. | 16,666 | 5 | 994 | 18,312 | .. | .. | .. | .. |
| Ganjám | .. | .. | .. | .. | 1,627 | .. | 7 | 1,634 | .. | .. | .. | .. |
| Vizagapatam | .. | .. | .. | | | .. | .. | .. | .. | .. | .. | .. |
| Gódávari | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna | .. | .. | .. | .. | .. | .. | .. | .. | 41,220 | .. | .. | .. |
| Kurnool | 148 | .. | 3,308 | .. | .. | .. | 3,551 | 7,007 | .. | .. | .. | .. |
| Bellary | .. | .. | .. | .. | .. | .. | .. | .. | 90,228 | .. | .. | .. |
| Anantapur | .. | .. | .. | .. | .. | .. | 20 | 20 | .. | .. | .. | .. |
| Total received from forests into the sale depôts during the year | 148 | .. | 3,308 | .. | 1,627 | .. | 3,578 | 8,661 | 131,448 | .. | .. | .. |
| Receipts from one sale depôt into another | .. | .. | .. | .. | 167 | .. | .. | 167 | .. | .. | .. | .. |
| Quantity found in depôts in excess of original measurement in the forests | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total receipts, including previous year's stock | 194 | .. | 3,909 | .. | 18,460 | 5 | 4,572 | 27,140 | 131,448 | .. | .. | .. |
| Sold from depôts | 146 | .. | 2,729 | .. | 16,894 | 5 | 3,724 | 23,498 | 78,769 | .. | .. | .. |
| Removed from one sale depôt into another | .. | .. | .. | .. | 167 | .. | .. | 167 | .. | .. | .. | .. |
| Deduct excess by wrong measurement | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Quantity used departmentally, wastage written off, &c. | .. | .. | 120 | .. | 95 | .. | .. | 215 | .. | .. | .. | .. |
| Total | 146 | .. | 2,849 | .. | 17,156 | 5 | 3,724 | 23,880 | 78,769 | .. | .. | .. |
| Balance at the end of the year | 48 | .. | 1,060 | .. | 1,304 | .. | 848 | 3,260 | 52,679 | .. | .. | .. |
| *Central Circle.* | | | | | | | | | | | | |
| Stock of the circle at sale depôts at the beginning of the year | .. | .. | .. | 50 | .. | .. | 275 | 325 | 34,194 | 1,380 | 41 | 562 |
| Cuddapah | .. | .. | .. | 42,662 | .. | .. | 2,785 | 45,447 | 9,280 | 500 | .. | 821 |
| Nellore | .. | .. | .. | .. | .. | .. | 402 | 402 | 27,824 | .. | .. | 296 |
| Chingleput | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | .. | .. | .. | 1,903 | .. | .. | 14 | 1,917 | 23,444 | 1,359 | 1 | .. |
| South Arcot | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Salem | 34 | .. | .. | .. | .. | .. | 1,062 | 1,096 | 1,383 | .. | 577 | .. |
| Trichinopoly | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total received from forests into sale depôts during the year | 34 | .. | .. | 44,565 | .. | .. | 4,263 | 48,862 | 61,881 | 1,859 | 578 | 1,117 |
| Receipts from one sale depôt into another | .. | .. | .. | .. | .. | .. | .. | .. | 139 | .. | .. | .. |
| Quantity found in depôts in excess of original measurement in the forests | .. | .. | .. | 2 | .. | .. | .. | 2 | .. | .. | .. | .. |
| Total receipts, including previous year's stock | 34 | .. | .. | 44,617 | .. | .. | 4,538 | 49,189 | 96,214 | 3,239 | 619 | 1,679 |
| Sold from depôts | .. | .. | .. | 43,493 | .. | .. | 4,200 | 47,693 | 50,945 | 1,980 | 18 | 1,673 |
| Removed from one sale depôt into another | .. | .. | .. | .. | .. | .. | .. | .. | 139 | .. | .. | .. |
| Deduct excess by wrong measurement | .. | .. | .. | .. | .. | .. | 7 | 7 | .. | .. | .. | 2 |
| Quantity used departmentally, wastage written off, &c. | .. | .. | .. | 7 | .. | .. | 39 | 46 | 2,514 | .. | .. | .. |
| Total | .. | .. | .. | 43,499 | .. | .. | 4,246 | 47,746 | 53,598 | 1,980 | 18 | 1,675 |
| Balance at the end of the year | 34 | .. | .. | 1,118 | .. | .. | 292 | 1,444 | 42,616 | 1,259 | 601 | 4 |

## Receipts and Issues of Timber and other produce in sale depôts during the year 1894-95—*cont.*

| | Timber. | | | | | | | | Fuel. | Bamboos. | Sandalwood. | Minor produce. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | Rosewood. | Vengai. | Redwood. | Sâl. | Ironwood. | Miscellaneous. | Total. | | | | |
| *Southern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | NO. | C. FT. | MDS. |
| Stock of the circle at sale depôts at the beginning of the year .. .. | 328 | 145 | .. | .. | .. | 262 | 32,132 | 32,867 | 34,970 | .. | 2,318 | 94 |
| South Canara .. .. | 190 | .. | 26 | .. | .. | .. | 16,722 | 16,938 | .. | .. | .. | .. |
| North Malabar .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Malabar .. .. | 10,975 | .. | .. | .. | .. | .. | .. | 10,975 | 1,008 | .. | .. | .. |
| Nilgiris .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 170,532 | .. | .. | .. |
| North Coimbatore .. | .. | .. | 106 | .. | .. | .. | 617 | 723 | .. | .. | 1,305 | 133 |
| South Coimbatore .. | 19,540 | .. | 1,138 | .. | .. | 847 | 33,635 | 55,220 | .. | .. | .. | .. |
| Madura .. .. .. | 600 | 250 | 233 | .. | .. | .. | 1,065 | 2,148 | 120 | .. | .. | .. |
| Tinnevelly .. .. | 102 | .. | .. | .. | .. | .. | 5,928 | 6,030 | 5,140 | .. | .. | .. |
| Total received from forests into the sale depôts during the year .. .. | 31,407 | 250 | 1,503 | .. | .. | 847 | 58,027 | 92,034 | 176,800 | 15,094 | 1,305 | 133 |
| Receipts from one sale depôt into another .. | .. | .. | .. | .. | .. | 411 | .. | 411 | .. | .. | .. | .. |
| Quantity found in depôts in excess of original measurement in the forest .. .. .. | .. | .. | .. | .. | .. | .. | 3 | 3 | .. | .. | 285 | 1 |
| Total receipts including previous year's stock .. | 31,735 | 395 | 1,503 | .. | .. | 1,520 | 90,162 | 125,315 | 211,770 | 15,094 | 3,908 | 228 |
| Sold from depôts .. .. | 30,334 | 93 | 1,374 | .. | .. | 894 | 54,442 | 87,137 | 168,857 | 14,976 | 2,428 | 92 |
| Removed from one sale depôt into another .. | .. | .. | .. | .. | .. | 411 | .. | 411 | .. | .. | .. | .. |
| Deduct excess by wrong measurement .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Quantity used departmentally, wastage written off, &c. .. .. .. | 675 | .. | .. | .. | .. | .. | 280 | 955 | 799 | 118 | .. | 37 |
| Total .. | 31,009 | 93 | 1,374 | .. | .. | 1,305 | 54,722 | 88,513 | 169,656 | 15,094 | 2,428 | 129 |
| Balance at the end of the year .. .. .. | 726 | 302 | 129 | .. | .. | 215 | 35,440 | 36,812 | 42,114 | .. | 1,480 | 99 |
| *Grand Total.* | | | | | | | | | | | | |
| Stock of the circles at sale depôts at the beginning of the year .. .. | 374 | 145 | 601 | 50 | 16,666 | 267 | 33,401 | 51,504 | 69,164 | 1,380 | 2,359 | 656 |
| Total received from forests into sale depôts during the year .. .. | 31,589 | 250 | 4,811 | 44,565 | 1,627 | 847 | 65,868 | 149,557 | 370,129 | 16,953 | 1,583 | 1,250 |
| Receipts from one sale depôt into another .. | .. | .. | .. | .. | 167 | 411 | .. | 578 | 139 | .. | .. | .. |
| Quantity found in excess of original measurement in forests .. | .. | .. | .. | 2 | .. | .. | 3 | 5 | .. | .. | 285 | 1 |
| Total receipts, including previous year's stock .. | 31,963 | 395 | 5,412 | 44,617 | 18,460 | 1,525 | 99,272 | 201,644 | 439,432 | 18,333 | 4,527 | 1,907 |
| Sold from depôts .. .. | 30,480 | 93 | 4,103 | 43,492 | 16,894 | 899 | 62,366 | 158,327 | 298,571 | 16,956 | 2,446 | 1,765 |
| Removed from one sale depôt into another .. | .. | .. | .. | .. | 167 | 411 | .. | 578 | 139 | .. | .. | .. |
| Deduct excess by wrong measurement .. .. | .. | .. | .. | .. | .. | .. | 7 | 7 | .. | .. | .. | 2 |
| Quantity used departmentally, wastage written off, &c. .. .. .. | 675 | .. | 120 | 7 | 95 | .. | 319 | 1,216 | 3,313 | 118 | .. | 37 |
| Total .. | 31,155 | 93 | 4,223 | 43,499 | 17,156 | 1,310 | 62,692 | 160,128 | 302,023 | 17,074 | 2,446 | 1,804 |
| Stock on 30th June 1895. | 808 | 302 | 1,189 | 1,118 | 1,304 | 215 | 36,580 | 41,516 | 137,409 | 1,259 | 2,081 | 103 |

## Annual Form No. 71.

*Forest Department, Madras Presidency.*

Sales of timber and other produce cut and collected by Government Agency during the year 1894–95.

| District. | Timber. | | | | | | | | | | | | | | Total, Timber. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Teak. | | Rosewood. | | Vengai. | | Redwood. | | Sâl. | | Iron-wood. | | Miscellaneous. | | From depôt. | | From forest. | |
| | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | From depôt. | From forest. | Quantity. | Amount. | Quantity. | Amount. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | RS. | C. FT. | RS. |
| Ganjám | .. | .. | .. | .. | .. | .. | .. | .. | 16,894 | 2,713 | .. | .. | 35 | 573 | 16,929 | 5,128 | 3,286 | 243 |
| Vizagapatam | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 868 | .. | .. | 868 | 21 |
| Gódávari | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 5 | .. | .. | .. | 5 | 1 | .. | .. |
| Kistna | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 580 | .. | .. | 580 | 110 |
| Kurnool | 146 | 8 | .. | .. | 2,729 | .. | .. | .. | .. | .. | .. | .. | 3,669 | .. | 6,544 | 8,264 | 8 | 8 |
| Bellary | .. | 3,958 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 13,574 | .. | .. | 17,532 | 671 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 20 | 100 | 20 | 1 | 100 | 3 |
| Total | 146 | 3,966 | .. | .. | 2,729 | .. | .. | .. | 16,894 | 2,713 | 5 | .. | 3,724 | 15,695 | 23,498 | 13,394 | 22,374 | 1,056 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Cuddapah | .. | .. | .. | .. | .. | .. | 42,714 | .. | .. | .. | .. | .. | 2,782 | .. | 45,496 | 16,180 | .. | .. |
| Nellore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 402 | 142 | 402 | 70 | 142 | 17 |
| Chingleput | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | .. | .. | .. | .. | .. | .. | 779 | .. | .. | .. | .. | .. | .. | 25,460 | 778 | 207 | 25,460 | 4,285 |
| South Arcot | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,471 | .. | .. | 1,471 | 96 |
| Salem | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,016 | .. | 1,016 | 801 | .. | .. |
| Trichinopoly | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | .. | .. | .. | .. | .. | .. | 43,493 | .. | .. | .. | .. | .. | 4,200 | 27,073 | 47,692 | 17,258 | 27,073 | 4,398 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | |
| South Canara | 406 | 203 | 39 | 1,450 | 3 | 56 | .. | .. | .. | .. | .. | .. | 6,404 | 1,125 | 6,852 | 6,271 | 2,834 | 196 |
| North Malabar | .. | 22,673 | .. | 1,969 | .. | 2,378 | .. | .. | .. | .. | .. | .. | .. | 11,458 | .. | .. | 38,473 | 25,035 |
| South Malabar | 10,975 | 9,991 | .. | 2,460 | .. | 617 | .. | .. | .. | .. | .. | .. | .. | 38,494 | 10,975 | 15,971 | 51,562 | 37,606 |
| Nilgiris | .. | 2,588 | .. | .. | .. | 21,709 | .. | .. | .. | .. | .. | .. | 7 | 1,212 | 7 | 5 | 25,509 | 14,644 |
| North Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 800 | .. | .. | 800 | 315 |
| South Coimbatore | 18,831 | .. | .. | .. | 1,138 | .. | .. | .. | .. | .. | 894 | .. | 40,566 | 8,515 | 61,429 | 41,536 | 8,515 | 972 |
| Madura | 20 | 28 | 54 | 11 | 233 | 3,430 | .. | .. | .. | .. | .. | .. | 960 | 176 | 1,267 | 642 | 3,645 | 3,511 |
| Tinnevelly | 102 | 40 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6,505 | 5,475 | 6,607 | 7,264 | 5,515 | 3,856 |
| Total | 30,334 | 35,523 | 93 | 5,890 | 1,374 | 28,185 | .. | .. | .. | .. | 894 | .. | 54,442 | 67,265 | 87,137 | 71,689 | 136,853 | 86,135 |

## Sales of timber and other produce cut and collected by Government Agency during the year 1894–95—*cont.*

| District. | Fuel. | | | | Bamboos. | | | | Sandalwood. | | | | Minor produce. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From depôt. | | From forest. | | From depôt. | | From forest. | | From depôt. | | From forest. | | From depôt. | | From forest. | |
| | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. | Quantity. | Amount. |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Northern Circle.* | C. FT. | RS. | C. FT. | RS. | NO. | RS. | NO. | RS. | C. FT. | RS. | C. FT. | RS. | MDS. | RS. | MDS. | RS. |
| Direction | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ‡ .. | 127 |
| Ganjám | .. | .. | 20 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Vizagapatam | .. | .. | 12,185 | 212 | .. | .. | 8,190 | 35 | .. | .. | .. | .. | .. | .. | 3,888 | 45 |
| Gódávari | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna | 24,041 | 1,104 | 56 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 361 | 38 |
| Kurnool | .. | .. | 10,226 | 313 | .. | .. | 50 | * .. | .. | .. | .. | .. | .. | .. | 226 | 113 |
| Bellary | 54,728 | 3,949 | 129,484 | 3,039 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8,953 | 1,796 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | † .. | 17 |
| Total | 78,769 | 5,053 | 151,971 | 3,566 | .. | .. | 8,240 | 35 | .. | .. | .. | .. | .. | .. | 13,428 | 2,136 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Cuddapah | 1,500 | 414 | 1,174 | 324 | 1,200 | 68 | .. | .. | .. | .. | .. | .. | 1,377 | 672 | 536 | 396 |
| Nellore | 25,144 | 5,135 | 171,754 | 18,948 | .. | .. | .. | .. | .. | .. | .. | .. | 296 | 579 | 5,631 | 397 |
| Chingleput | .. | .. | 860 | 73 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | 23,504 | 1,773 | 211,769 | 12,875 | 780 | 150 | 526 | 653 | 1 | 26 | .. | .. | .. | .. | .. | .. |
| South Arcot | .. | .. | 30,414 | 2,316 | .. | .. | 29 | 1 | .. | .. | 7 | 31 | .. | .. | .. | .. |
| Salem | 797 | 93 | 202,198 | 23,188 | .. | .. | 900 | 52 | 17 | 71 | .. | .. | .. | .. | .. | .. |
| Trichinopoly | .. | .. | 314,239 | 21,154 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 197 | 20 |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | 50,945 | 7,420 | 932,408 | 78,878 | 1,980 | 218 | 1,455 | 706 | 18 | 97 | 7 | 31 | 1,673 | 1,251 | 6,364 | 813 |
| *Southern Circle.* | | | | | | | | | | | | | | | | |
| South Canara | .. | .. | 50,478 | 4,678 | .. | .. | 834 | 4 | .. | .. | .. | .. | .. | .. | 2,113 | 9,252 |
| North Malabar | .. | .. | † .. | 14 | .. | .. | 117 | 5 | .. | .. | .. | .. | .. | .. | 4 | 491 |
| South Malabar | 558 | 39 | .. | .. | 14,976 | 1,698 | .. | .. | .. | .. | .. | .. | .. | .. | 82 | 314 |
| Nilgiris | 159,819 | 13,519 | 123,908 | 2,948 | .. | .. | .. | .. | .. | .. | 674 | 5,271 | .. | .. | 708 | 2,429 |
| North Coimbatore | .. | .. | † .. | 15 | .. | .. | † .. | 12 | 2,428 | 36,170 | .. | .. | 92 | 505 | .. | .. |
| South Coimbatore | .. | .. | 276,668 | 5,913 | .. | .. | 2,980 | 149 | .. | .. | .. | .. | .. | .. | 1,864 | 4,304 |
| Madura | 4,220 | 612 | 41,061 | 2,775 | .. | .. | 5,375 | 212 | .. | .. | .. | .. | .. | .. | † .. | 7 |
| Tinnevelly | 4,260 | 207 | 257,930 | 4,621 | .. | .. | 56 | 2 | .. | .. | .. | .. | .. | .. | 1,465 | 14 |
| Total | 168,857 | 14,377 | 750,045 | 20,964 | 14,976 | 1,698 | 9,362 | 384 | 2,428 | 36,170 | 674 | 5,271 | 92 | 505 | 6,236 | 16,811 |

* No amount was realized as per Accountant-General's Annual Return Form No. 64.

† The revenue appears in Form No. 64, but the Collector has not shown the quantity sold. Apparently the amount represents the quantity sold at the close of the year 1893–94, but not accounted for in that return.

‡ The Accountant-General's Form No. 64 shows this revenue under direction; the quantity is, however, not known.

Sales of timber and other produce cut and collected by Government Agency, &c.—*cont.*

| | Quantity sold. | | | Amount of sales. | | | Amount actually realized. |
|---|---|---|---|---|---|---|---|
| | From depôt. | From forest. | Total. | From depôt. | From forest. | Total. | |
| *Northern Circle.* | | | Abstract. | | | | |
| | | | | Rs. | Rs. | Rs. | Rs. |
| I (*a*) Timber .. .. C.ft. | 23,498 | 22,374 | 45,872 | 13,394 | 1,056 | 14,450 | 14,696 |
| (*b*) Fuel .. .. .. ,, | 78,769 | 151,971 | 230,740 | 5,053 | 3,566 | 8,619 | 8,619 |
| (*c*) Bamboos .. .. No. | .. | 8,240 | 8,240 | .. | 35 | 35 | 35 |
| (*d*) Sandalwood .. .. C.ft. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Minor produce .. Mds. | .. | 13,428 | 13,428 | .. | 2,136 | 2,136 | 2,136 |
| *Central Circle.* | | | | | | | |
| I (*a*) Timber .. .. C.ft. | 47,692 | 27,073 | 74,765 | 17,258 | 4,398 | 21,656 | 19,214 |
| (*b*) Fuel .. .. .. ,, | 50,945 | 932,408 | 983,353 | 7,420 | 78,878 | 86,298 | 91,424 |
| (*c*) Bamboos .. .. No. | 1,980 | 1,455 | 3,435 | 218 | 706 | 924 | 929 |
| (*d*) Sandalwood .. .. C.ft. | 18 | 7 | 25 | 97 | 31 | 128 | 128 |
| (*e*) Minor produce .. Mds. | 1,673 | 6,364 | 8,037 | 1,251 | 813 | 2,064 | 2,065 |
| *Southern Circle.* | | | | | | | |
| I (*a*) Timber .. .. C ft. | 87,137 | 136,853 | 223,990 | 71,689 | 86,135 | 1,57,824 | 1,58,668 |
| (*b*) Fuel .. .. .. ,, | 168,857 | 750,045 | 918,902 | 14,377 | 20,964 | 35,341 | 34,475 |
| (*c*) Bamboos .. .. No. | 14,976 | 9,362 | 24,338 | 1,698 | 384 | 2,082 | 2,082 |
| (*d*) Sandalwood .. .. C.ft. | 2,428 | 674 | 3,102 | 36,170 | 5,271 | 41,441 | 41,441 |
| (*e*) Minor produce .. Mds. | 92 | 6,236 | 6,328 | 505 | 16,811 | 17,316 | 17,482 |
| | | | *Grand Total.* | | | | |
| I (*a*) Timber .. .. C.ft. | 158,327 | 186,300 | 344,627 | 1,02,341 | 91,590 | 1,93,930 | 1,92,578 |
| (*b*) Fuel .. .. .. ,, | 298,571 | 1,834,424 | 2,132,995 | 26,850 | 1,03,408 | 1,30,258 | 1,34,518 |
| (*c*) Bamboos .. .. No. | 16,956 | 19,057 | 36,013 | 1,916 | 1,125 | 3,041 | 3,046 |
| (*d*) Sandalwood .. .. C.ft. | 2,446 | 681 | 3,127 | 36,267 | 5,302 | 41,569 | 41,569 |
| (*e*) Minor produce .. Mds. | 1,765 | 26,028 | 27,793 | 756 | 19,760 | 21,516 | 21,683 |
| Grand Total of sales during the year both from depôts and forests ... .. | | | | | | 390,314 | 3,93,394 |
| Add outstandings due from previous year .. .. .. | | | | | | 13,239<br>(*a*)— 8 | .. |
| Total .. | | | | | | 4,03,545 | .. |
| Deduct amount written off from outstanding Revenue .. .. | | | | | | 225 | .. |
| ,, ,, as per Form No. 64 .. | | | | | | 3,93,394 | .. |
| Balance outstanding on 30th June 1895 .. | | | | | | 9,926 | .. |

(*a*) Shown by mistake as outstanding in the return for 1893-94.

## Annual Form No. 72-A.

*Forest Department, Madras Presidency.*

**Timber and other produce cut, collected and removed by consumers or purchasers during 1894–95.**

| District. | Timber. | Firewood and charcoal. | Bamboos. | Money value of sales. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Timber. | | Firewood and charcoal. | | Bamboos. | | Grazing and fodder grass. | | Minor produce. | | Total. | |
| | | | | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. |
| *Northern Circle.* | C. FEET. | C. FEET. | NO. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Ganjám .. .. .. | 114,687 | 678,917 | 1,926,698 | 10,547 | 10,547 | 9,630 | 9,630 | 7,529 | 7,529 | 5,112 | 5,112 | 817 | 817 | 33,635 | 33,635 |
| Vizagapatam .. .. | 90,720 | 491,822 | 1,268,800 | 2,964 | 2,964 | 10,640 | 10,636 | 6,016 | 6,016 | 1,508 | 1,508 | 6,229 | 6,156 | 27,357 | 27,280 |
| Gódávari .. .. .. | 420,017 | 491,705 | 10,268,499 | 32,388 | 32,388 | 8,851 | 8,851 | 51,028 | 50,753 | 2,155 | 2,155 | 2,349 | 2,315 | 96,771 | 96,462 |
| Kistna .. .. | 228,974 | 581,987 | 247,200 | 18,732 | 18,732 | 13,236 | 13,882 | 618 | 618 | 90,144 | 90,144 | 13,286 | 12,968 | 1,36,016 | 1,36,344 |
| Kurnool .. .. .. | 401,072 | 306,253 | 5,068,700 | 36,406 | 36,406 | 11,857 | 11,857 | 15,267 | 15,267 | 18,240 | 18,253 | 55,153 | 54,673 | 1,36,923 | 1,36,456 |
| Bellary .. .. .. | 235,260 | 432,908 | 92,582 | 11,976 | 11,976 | 7,722 | 7,722 | 1,851 | 1,851 | 5,506 | 5,506 | 31,766 | 31,202 | 58,821 | 58,257 |
| Anantapur .. .. . | 44,780 | 171,280 | 8,815 | 7,752 | 7,752 | 3,812 | 3,812 | 174 | 174 | 4,903 | 4,903 | 44,467 | 51,247 | 61,108 | 67,888 |
| Total .. | 1,535,510 | 3,154,872 | 18,881,294 | 1,20,765 | 1,20,765 | 65,748 | 66,390 | 82,483 | 82,208 | 1,27,568 | 1,27,581 | 1,54,067 | 1,59,378 | 5,50,631 | 5,56,322 |
| *Central Circle.* | | | | | | | | | | | | | | | |
| Cuddapah .. .. .. | 158,740 | 1,313,844 | 436,308 | 13,778 | 13,778 | 24,976 | 24,976 | 7,692 | 7,692 | 17,868 | 17,868 | 1,00,293 | 1,00,276 | 1,64,607 | 1,64,590 |
| Nellore .. .. .. | 132,924 | 170,199 | 1,982 | 11,168 | 11,168 | 6,321 | 6,321 | 66 | 66 | 23,759 | 23,759 | 12,286 | 12,286 | 53,600 | 53,600 |
| Chingleput .. .. | 36,175 | 115,019 | 4,909 | 2,801 | 2,801 | 3,715 | 3,715 | 180 | 180 | 6,826 | 6,826 | 6,409 | 6,409 | 19,931 | 19,931 |
| North Arcot .. .. | 11,774 | 292,770 | 2,893,244 | 807 | 2,474 | 26,595 | 19,142 | 15,729 | 26,870 | 26,951 | 26,951 | 70,864 | 52,465 | 1,40,946 | 1,27,902 |
| South do. .. .. | 45,796 | 462,596 | 51,860 | 5,481 | 5,481 | 26,232 | 26,227 | 2,473 | 2,473 | 25,792 | 25,792 | 53,475 | 24,485 | 1,13,453 | 84,458 |
| Salem .. .. .. | 73,966 | 566,674 | 5,266,740 | 10,997 | 10,997 | 39,148 | 39,084 | 37,868 | 37,868 | 24,164 | 24,164 | 41,522 | 41,518 | 1,53,699 | 1,53,631 |
| Trichinopoly .. .. | 134,446 | 357,312 | 630,262 | 8,982 | 8,954 | 5,850 | 5,849 | 2,819 | 2,819 | 13,189 | 11,500 | 3,357 | 11,905 | 34,197 | 41,027 |
| Tanjore .. .. .. | 20,014 | 98,028 | 18,550 | 1,256 | 1,256 | 4,286 | 4,276 | 382 | 382 | 498 | 498 | 2,722 | 2,873 | 9,144 | 9,285 |
| Total .. | 613,835 | 3,376,442 | 9,303,855 | 55,270 | 56,909 | 1,37,123 | 1,29,590 | 67,209 | 78,350 | 1,39,047 | 1,37,358 | 2,90,928 | 2,52,217 | 6,89,577 | 6,54,424 |
| *Southern Circle.* | | | | | | | | | | | | | | | |
| South Canara .. .. | 2,438 | 462,760 | 60,240 | 788 | 788 | 7,194 | 7,194 | 1,570 | 1,570 | 3,976 | 3,976 | 15,775 | 18,201 | 29,303 | 31,729 |
| North Malabar .. .. | 7,237 | 3,136 | 21,350 | 1,676 | 1,676 | 133 | 133 | 326 | 326 | 1,675 | 1,675 | 2,356 | 1,958 | 6,166 | 5,768 |
| South do. .. .. | 50,331 | 198,866 | 68,110 | 4,056 | 4,056 | 4,128 | 4,128 | 910 | 910 | 215 | 215 | 655 | 655 | 9,964 | 9,964 |
| Nilgiris .. .. .. | 19,275 | 23,487 | 228,098 | 4,366 | 4,366 | 1,402 | 1,402 | 2,917 | 2,917 | 8,200 | 8,200 | 1,864 | 1,864 | 18,749 | 18,749 |
| North Coimbatore .. | 28,264 | 233,039 | 485,440 | 2,665 | 2,665 | 7,041 | 7,041 | 8,089 | 8,089 | 32,700 | 32,707 | 18,054 | 18,225 | 68,549 | 68,727 |
| South do. .. .. | 25,604 | 683,254 | 269,440 | 6,523 | 6,523 | 9,925 | 9,925 | 4,408 | 4,408 | 7,378 | 7,378 | 4,432 | 4,414 | 32,666 | 32,648 |
| Madura .. .. .. | 23,070 | 224,027 | 154,930 | 3,081 | 3,081 | 8,180 | 8,180 | 2,383 | 2,383 | 2,856 | 2,856 | 22,481 | 21,820 | 38,981 | 38,320 |
| Tinnevelly .. .. | 11,834 | 1,453,168 | 31,800 | 2,781 | 2,781 | 40,789 | 40,957 | 532 | 532 | 5,882 | 6,347 | 18,403 | 18,981 | 68,387 | 69,598 |
| Total .. | 168,053 | 3,281,737 | 1,319,408 | 25,936 | 25,936 | 78,792 | 78,960 | 21,135 | 21,135 | 62,882 | 63,354 | 84,020 | 86,118 | 2,72,765 | 2,75,503 |
| Grand total .. | 2,317,398 | 9,813,051 | 29,504,557 | 2,01,971 | 2,03,610 | 2,81,663 | 2,74,940 | 1,70,827 | 1,81,693 | 3,29,497 | 3,28,293 | 5,29,015 | 4,97,713 | 15,12,973 | 14,86,249 |
| | | | | | | | | | | | | | | | |
| Add outstanding due from previous year as per Form No. 66 .. .. | | | | | | | | | | | | | | 52,625 | |
| Total .. | | | | | | | | | | | | | | 15,65,598 | |
| Deduct amount of outstanding written off, &c. .. .. .. .. | | | | | | | | | | | | | | 381 | |
| Do. realized during the year as per Form No. 64 .. .. | | | | | | | | | | | | | | 14,86,249 | |
| Balance outstanding as per Form No. 66 .. .. | | | | | | | | | | | | | | 78,968 | |

## ANNUAL FORM No. 72-B.

*Forest Department, Madras Presidency.*

TIMBER and other Produce confiscated and sold during the year 1894–95.

| District. | TIMBER. | | FIREWOOD. | | BAMBOOS. | | Minor produce in value. | Total amount of sales. | Amount actually realized. |
|---|---|---|---|---|---|---|---|---|---|
| | Quantity in cubic feet. | Amount of sales. | Quantity in cubic feet. | Amount of sales. | Number. | Amount of sales. | | | |
| *Northern Circle.* | | RS. | | RS. | | RS. | RS. | RS. | RS. |
| Ganjám .. .. | 4,587 | 1,047 | 610 | 17 | 566 | 2 | 1 | 1,067 | 1,067 |
| Vizagapatam .. | 1,320 | 80 | 65 | 1 | .. | .. | 1 | 82 | 82 |
| Gódávari .. .. | 24,141 | 2,561 | .. | .. | .. | .. | .. | 2,561 | 2,561 |
| Kistna .. .. | 1,550 | 285 | 178 | 15 | 74 | 7 | 17 | 324 | 324 |
| Kurnool .. .. | 2,010 | 1,079 | 1,440 | 61 | 206,500 | 2,508 | 32 | 3,680 | 3,680 |
| Bellary .. .. | 136 | 8 | 2,906 | 72 | .. | .. | 1 | 81 | 81 |
| Anantapur .. .. | 668 | 88 | 515 | 10 | .. | .. | 5 | 103 | 103 |
| Total .. | 34,412 | 5,148 | 5,714 | 176 | 207,140 | 2,517 | 57 | 7,898 | 7,898 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. | 956 | 302 | 134 | 8 | 22 | 1 | 12 | 323 | 325 |
| Nellore .. .. | 680 | 51 | 283 | 12 | .. | .. | 3 | 66 | 66 |
| Chingleput .. .. | 86 | 9 | 712 | 43 | .. | .. | 33 | 85 | 85 |
| North Arcot .. | 493 | 121 | 622 | 70 | 364 | 5 | 28 | 224 | 224 |
| South do. .. | 2,240 | 283 | 1,790 | 112 | 120 | 6 | 35 | 436 | 436 |
| Salem .. .. | 2,140 | 261 | 2,630 | 90 | 1,240 | 62 | 1 | 414 | 414 |
| Trichinopoly .. | 380 | 27 | 450 | 17 | 450 | 10 | 6 | 60 | 60 |
| Tanjore .. .. | .. | .. | 671 | 20 | .. | .. | .. | 20 | 20 |
| Total .. | 6,975 | 1,054 | 7,292 | 372 | 2,196 | 84 | 118 | 1,628 | 1,630 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. | 2,835 | 479 | 1,025 | 109 | 520 | 26 | 13 | 627 | 627 |
| North Malabar .. | 1,526 | 1,299 | .. | .. | 6 | .. | 1 | 1,300 | 1,300 |
| South do. .. | 91 | 20 | .. | .. | .. | .. | 4 | 24 | 24 |
| Nílgiris .. .. | 94 | 54 | 16 | .. | .. | .. | 17 | 71 | 71 |
| North Coimbatore .. | 770 | 239 | 106 | 4 | 2,128 | 34 | 140 | 417 | 417 |
| South do. .. | 375 | 238 | 2,787 | 82 | 260 | 13 | 69 | 402 | 402 |
| Madura .. .. | 393 | 283 | 1,671 | 186 | .. | .. | 45 | 514 | 514 |
| Tinnevelly .. .. | 4 | 14 | 7,399 | 314 | .. | .. | 10 | 338 | 338 |
| Total .. | 6,088 | 2,626 | 13,004 | 695 | 2,914 | 73 | 299 | 3,693 | 3,693 |
| Grand Total .. | 47,475 | 8,828 | 26,010 | 1,243 | 212,250 | 2,674 | 474 | 13,219 | 13,221 |

| | |
|---|---|
| Add outstanding due from previous year .. .. .. .. .. .. .. .. | 2 |
| Total .. | 13,221 |
| Deduct amount realized during the year as per Form No. 66 .. .. .. .. .. | 13,221 |
| Balance outstanding on 30th June 1895 .. | .. |

ANNUAL FORM No. 73-A.

*Forest Department, Madras Presidency.*

ABSTRACT showing the Value of Timber and other produce at sale depôts for the year 1894–95.

| District. | Description of timber or produce. | On hand at commencement of the year. | | | On hand at end of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | *Northern Circle.* | | | RS. | | | RS. | RS. | RS. |
| Ganjám .. | Sal logs .. .. .. | 1,030 | 16,571 | 6,214 | 107 | 1,304 | 409 | .. | 5,805 |
| | ,, sleepers .. .. | 27 | 94 | 54 | .. | .. | .. | .. | 54 |
| | ,, slabs .. .. .. | 6 | 1 | 1 | .. | .. | .. | .. | 1 |
| | Miscellaneous .. .. | 2 | 28 | 4 | .. | .. | .. | .. | 4 |
| | Total, Timber .. | .. | 16,694 | 6,273 | 107 | 1,304 | 409 | .. | 5,864 |
| Gódávari .. | Ironwood .. .. .. | .. | 5 | 7 | .. | .. | .. | .. | 7 |
| Kistna .. | Fuel .. .. .. | .. | .. | .. | .. | 17,179 | 859 | 859 | .. |
| Kurnool .. | Teak .. .. .. | 6 | 46 | 93 | 7 | 48 | 79 | .. | 14 |
| | Vengai .. .. .. | 993 | 601 | 543 | 811 | 1,060 | 1,325 | 782 | .. |
| | Miscellaneous .. .. | 137 | 966 | 724 | 83 | 848 | 848 | 124 | .. |
| | Total, Timber .. | .. | 1,613 | 1,360 | .. | 1,956 | 2,252 | 892 | .. |
| Bellary .. | Fuel .. .. .. | .. | .. | .. | .. | 35,500 | 1,835 | 1,835 | .. |
| | *Central Circle.* | | | | | | | | |
| Cuddapah .. | Redwood roots and stumps. | .. | 50 | 11 | .. | .. | .. | .. | 11 |
| | Miscellaneous .. .. | .. | 241 | 79 | 141 | 237 | 130 | 51 | .. |
| | Total, Timber .. | .. | 291 | 90 | 141 | 237 | 130 | 40 | .. |
| | Fuel .. .. | .. | .. | .. | 389 | 7,780 | 924 | 924 | .. |
| | Bamboos .. .. .. | 700 | .. | 49 | .. | .. | .. | .. | 49 |
| | Minor produce .. .. | MDS. 562 | .. | 354 | MDS. 4 | .. | 49 | .. | 305 |
| Nellore .. | Fuel .. .. .. | .. | 4,123 | 645 | .. | 5,989 | 1,285 | 640 | .. |
| North Arcot .. | Miscellaneous timber .. | .. | 25 | 25 | .. | 1,118 | 430 | 405 | .. |
| | Fuel .. .. .. | .. | 30,071 | 2,179 | .. | 28,311 | 1,946 | .. | 233 |
| | Bamboos .. .. .. | 680 | .. | 127 | 1,259 | .. | 315 | 188 | .. |
| Salem .. .. | Sandalwood .. .. | .. | 41 | 610 | .. | 601 | 6,745 | 6,135 | .. |
| | Miscellaneous timber .. | .. | 9 | 9 | .. | 55 | 31 | 22 | .. |
| | Teak .. .. .. | .. | .. | .. | .. | 34 | 34 | 34 | .. |
| | Total, Timber .. | .. | 9 | 9 | .. | 89 | 65 | 56 | .. |
| | Fuel .. .. .. | .. | .. | .. | .. | 536 | 67 | 67 | .. |
| | *Southern Circle.* | | | | | | | | |
| South Canara .. | Teak .. .. .. | 10 | 328 | 369 | 2 | 101 | 177 | .. | 192 |
| | Rosewood .. .. .. | 3 | 57 | 91 | 1 | 18 | 20 | .. | 71 |
| | Vengai .. .. .. | .. | .. | .. | .. | 23 | 23 | 23 | .. |
| | Miscellaneous .. .. | 9 | 212 | 185 | 919 | 10,476 | 1,078 | 893 | .. |
| | Total, Timber .. | .. | 597 | 645 | .. | 10,618 | 1,298 | 653 | .. |
| Nilgiris .. | Miscellaneous timber .. | .. | 7 | 6 | .. | .. | .. | .. | 6 |
| | Fuel .. .. .. | .. | 30,257 | 2,190 | 499 | 40,621 | 2,904 | 714 | .. |
| | Minor produce .. .. | MDS. 36 | .. | 36 | .. | .. | .. | .. | 36 |

## Abstract showing the Value of Timber and other produce at sale depôts for the year 1894–95—*cont.*

| District. | Description of timber or produce. | On hand at commencement of the year. | | | On hand at end of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | *Southern Circle*—cont. | | | Rs. | | | Rs. | Rs. | Rs. |
| North Coimbatore. | Miscellaneous timber .. | .. | .. | .. | .. | 106 | 106 | 106 | .. |
| | Vengai .. .. .. | .. | .. | .. | .. | 617 | 700 | 700 | .. |
| | Total, Timber .. | .. | .. | .. | .. | 723 | 806 | 806 | .. |
| | Sandalwood including chips .. .. .. | .. | 2,318 | 25,603 | .. | 1,480 | 14,072 | .. | 11,531 |
| | Minor produce .. .. | Mds. 58 | .. | 232 | .. | 99 | 644 | 412 | .. |
| South Coimbatore. | Teak .. .. .. | .. | .. | .. | 1 | 45 | 75 | 75 | .. |
| | Rosewood .. .. .. | 3 | 88 | 147 | 3 | 88 | 147 | .. | .. |
| | Ironwood .. .. .. | 9 | 262 | 94 | 8 | 215 | 116 | 22 | .. |
| | Miscellaneous .. .. | 893 | 30,700 | 11,521 | 691 | 23,755 | 8,915 | .. | 2,606 |
| | Total, Timber .. | .. | 31,050 | 11,762 | .. | 24,103 | 9,253 | 2,509 | .. |
| Madura .. | Teak .. .. .. | .. | .. | .. | .. | 580 | 580 | 580 | .. |
| | Rosewood .. .. .. | .. | .. | .. | .. | 196 | 196 | 196 | .. |
| | Miscellaneous .. .. | .. | .. | .. | .. | 105 | 50 | 50 | .. |
| | Total, Timber .. | .. | .. | .. | .. | 881 | 826 | 826 | .. |
| | Firewood .. .. .. | .. | 4,713 | 514 | .. | 613 | 82 | .. | 432 |
| Tinnevelly .. | Miscellaneous timber .. | .. | 1,213 | 965 | 475 | 487 | 396 | .. | 569 |
| | Fuel .. .. .. .. | .. | .. | .. | .. | 880 | 33 | 33 | .. |
| | **ABSTRACT.** | | | | | | | | |
| | *Northern Circle.* | | | | | | | | |
| | Timber .. .. .. | .. | 18,312 | 7,640 | .. | 3,260 | 2,661 | .. | 4,979 |
| | Firewood .. .. .. | .. | .. | .. | .. | 52,679 | 2,694 | 2,694 | .. |
| | *Central Circle.* | | | | | | | | |
| | Timber .. .. .. | .. | 325 | 124 | .. | 1,444 | 625 | 501 | .. |
| | Sandalwood .. .. | .. | 41 | 610 | .. | 601 | 6,745 | 6,135 | .. |
| | Fuel .. .. .. | .. | 34,194 | 2,824 | .. | 42,616 | 4,222 | 1,398 | .. |
| | Bamboos .. .. .. | No. 1,380 | .. | 176 | No. 1,259 | .. | 315 | 139 | .. |
| | Minor produce .. .. | Mds. 562 | .. | 354 | Mds. 4 | .. | 49 | .. | 305 |
| | *Southern Circle.* | | | | | | | | |
| | Timber .. .. .. | .. | 32,867 | 13,378 | .. | 36,812 | 12,579 | .. | 799 |
| | Fuel .. .. .. | .. | 34,970 | 2,704 | .. | 42,114 | 3,019 | 315 | .. |
| | Sandalwood .. .. | .. | 2,318 | 25,603 | .. | 1,480 | 14,072 | .. | 11,531 |
| | Minor produce .. .. | Mds. 94 | .. | 268 | Mds. 99 | .. | 644 | 376 | .. |
| | **GRAND TOTAL.** | | | | | | | | |
| | Timber .. .. .. | .. | 51,504 | 21,142 | .. | 41,516 | 15,865 | .. | 5,277 |
| | Sandalwood .. .. | .. | 2,359 | 26,213 | .. | 2,081 | 20,817 | .. | 5,396 |
| | Fuelwood .. .. .. | .. | 69,164 | 5,528 | .. | 137,409 | 9,935 | 4,407 | .. |
| | Bamboos .. .. .. | No. 1,380 | .. | 176 | No. 1,259 | .. | 315 | 139 | .. |
| | Minor produce .. .. | Mds. 656 | .. | 622 | Mds. 103 | .. | 693 | 71 | .. |

## ANNUAL FORM No. 73-B.

*Forest Department, Madras Presidency.*

ABSTRACT showing the Value of Live-stock, Stores, Tools and Plant for the year 1894–95.

| Districts. | Surveying, &c., Instruments | | | | Tools | | | | Machinery | | | | Furniture | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Northern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Direction .. .. .. .. | 24 | 402 | 24 | 402 | .. | .. | .. | .. | .. | .. | .. | .. | 109 | 1,790 | 109 | 1,790 |
| Ganjám .. .. .. .. | 47 | 852 | 36 | 817 | 630 | 667 | 273 | 435 | .. | .. | .. | .. | 78 | 528 | 77 | 556 |
| Vizagapatam .. .. .. .. | 20 | 356 | 20 | 356 | 164 | 206 | 164 | 206 | .. | .. | .. | .. | 45 | 371 | 45 | 371 |
| Gódávari .. .. .. .. | 56 | 534 | 62 | 534 | 648 | 1,244 | 648 | 1,244 | .. | .. | .. | .. | 85 | 658 | 85 | 658 |
| Kistna .. .. .. .. .. | 66 | 1,032 | 67 | 1,042 | 465 | 594 | 465 | 594 | .. | .. | .. | .. | 77 | 689 | 89 | 796 |
| Kurnool .. .. .. .. | 57 | 476 | 58 | 621 | 727 | 1,085 | 922 | 1,225 | .. | .. | .. | .. | 102 | 690 | 118 | 766 |
| Bellary .. .. .. .. | 65 | 162 | 83 | 220 | 268 | 433 | 305 | 453 | .. | .. | .. | .. | 38 | 220 | 45 | 302 |
| Anantapur .. .. .. .. | 44 | 238 | 54 | 257 | 223 | 825 | 226 | 781 | .. | .. | .. | .. | 80 | 466 | 84 | 552 |
| Total .. | 379 | 4,052 | 404 | 4,249 | 3,125 | 5,054 | 3,003 | 4,938 | .. | .. | .. | .. | 614 | 5,412 | 652 | 5,791 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Direction .. .. .. .. | 19 | 249 | 19 | 249 | .. | .. | .. | .. | .. | .. | .. | .. | 51 | 186 | 51 | 186 |
| Cuddapah .. .. .. .. | * 102 | 708 | 101 | 707 | 471 | 1,391 | 471 | 1,394 | miles 3½ | 13,967 | miles 3½ | 13,967 | 116 | 7,816 | 120 | 7,858 |
| Nellore .. .. .. .. .. | 52 | 367 | 56 | 389 | 473 | 1,111 | 430 | 1,101 | 21 miles 9½ | 45,735 | 21 miles 9½ | 45,735 | 76 | 423 | 74 | 416 |
| Chingleput .. .. .. .. | 21 | 368 | 21 | 368 | 393 | 733 | 393 | 733 | .. | .. | .. | .. | 79 | 756 | 73 | 698 |
| North Arcot .. .. .. .. | 21 | 602 | 21 | 602 | 1,369 cwt. 32·94 | 2,323 | 1,352 cwt 32·94 | 2,011 | 13 | 88 | 13 | 88 | 132 | 544 | 134 | 521 |
| South Arcot .. .. .. .. | 118 | 1,415 | 118 | 1,415 | 995 | 706 | 1,001 | 710 | 7 | 271 | 7 | 271 | 178 | 1,590 | 178 | 1,590 |
| Salem .. .. .. .. | 121 | 1,219 | 126 | 1,413 | 1,448 | 2,604 | 1,603 | 2,960 | 2 | 21 | 2 | 21 | 325 | 1,487 | 327 | 1,505 |
| Trichinopoly .. .. .. .. | 15 | 412 | 39 | 412 | 1,040 | 1,233 | 978 | 1,217 | .. | .. | .. | .. | 76 | 579 | 100 | 769 |
| Tanjore .. .. .. .. | 26 | .. | 26 | .. | 157 | 29 | 177 | 44 | .. | .. | .. | .. | 79 | 187 | 79 | 187 |
| Total .. | 495 | 5,340 | 527 | 5,555 | 6,346 cwt. 32·94 | 10,130 | 6,405 cwt. 32·94 | 10,170 | 43 miles 13¼ | 60,082 | 43 miles 13¼ | 60,082 | 1,112 | 13,568 | 1,136 | 13,730 |

* Collectors do not explain the variations between these figures and those of the previous year's closing balance.

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1894–95—*cont.*

| Districts. | Buildings | | | | Live-stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Northern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 133 | 2,192 | 133 | 2,192 | .. | .. |
| Ganjám .. .. | 21 | 14,834 | 22 | 15,904 | 1 | 1,500 | 1 | 1,800 | .. | .. | .. | .. | 777 | 18,381 | 409 | 19,512 | 1,131 | .. |
| Vizagapatam .. .. | 18 | 1,035 | 18 | 1,035 | .. | .. | .. | .. | 1 | 10 | 1 | 10 | 248 | 1,978 | 248 | 1,978 | .. | .. |
| Gódávari .. .. | 29 | 5,256 | 37 | 25,217 | .. | .. | .. | .. | 467 | 3,347 | 522 | 3,735 | 1,285 | 11,039 | 1,354 | 31,388 | 20,349 | .. |
| Kistna .. .. .. | 51 | 8,576 | 57 | 11,123 | .. | .. | .. | .. | 6 | 2,460 | 7 | 2,610 | 665 | 13,351 | 685 | 16,165 | 2,814 | .. |
| Kurnool .. .. | 52 | 23,200 | 58 | 25,136 | .. | .. | .. | .. | 16 | 63 | 18 | 93 | 954 | 25,514 | 1,174 | 27,841 | 2,327 | .. |
| Bellary .. .. .. | 14 | 2,652 | 16 | 3,481 | .. | .. | .. | .. | 26 | 82 | 26 | 82 | 411 | 3,549 | 475 | 4,538 | 989 | .. |
| Anantapur .. .. | 13 | 12,800 | 13 | 12,800 | .. | .. | .. | .. | .. | .. | .. | .. | 360 | 14,329 | 377 | 14,390 | 61 | .. |
| Total .. | 198 | 68,353 | 221 | 94,696 | 1 | 1,500 | 1 | 1,800 | 516 | 5,962 | 574 | 6,530 | 4,833 | 90,333 | 4,855 | 1,18,004 | 27,671 | .. |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 70 | 435 | 70 | 435 | .. | .. |
| Cuddapah .. .. | 103 | 18,979 | 107 | 19,451 | 2 | 37 | 1 | 18 | .. | .. | .. | .. | 794 miles 3½ | 42,898 | 800 miles 3½ | 43,395 | 497 | .. |
| Nellore .. .. .. | 9 | 2,079 | 9 | 2,079 | .. | .. | .. | .. | 240 | 5,154 | 241 | 5,154 | 871 miles 9¾ | 54,869 | 831 miles 9¾ | 54,874 | 5 | .. |
| Chingleput .. .. | 16 | 3,273 | 17 | 4,086 | .. | .. | .. | .. | 31 | 27 | 31 | 27 | 540 | 5,157 | 535 | 5,912 | 755 | .. |
| North Arcot .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 38 | 7,941 | 40 | 8,296 | cwt. 32·94 1,573 | 11,498 | cwt. 32·94 1,560 | 11,518 | 20 | .. |
| South Arcot .. .. | 16 | 8,637 | 17 | 9,161 | .. | .. | .. | .. | 584 | 1,611 | 584 | 1,611 | 1,898 | 14,230 | 1,905 | 14,758 | 528 | .. |
| Salem .. .. .. | 17 | 12,886 | 19 | 13,971 | .. | .. | .. | .. | 2 | 14 | 3 | 84 | 1,915 | 18,231 | 2,080 | 19,954 | 1,723 | .. |
| Trichinopoly .. .. | 9 | 1,832 | 9 | 1,832 | .. | .. | .. | .. | 231 | 386 | 1,093 | 393 | 1,371 | 4,442 | 2,219 | 4,623 | 181 | .. |
| Tanjore .. .. | 5 | 336 | 10 | 460 | .. | .. | .. | .. | .. | .. | .. | .. | 267 | 552 | 292 | 691 | 139 | .. |
| Total .. | 175 | 48,022 | 188 | 51,040 | 2 | 37 | 1 | 18 | 1,126 | 15,133 | 1,992 | 15,565 | 9,299 cwt. 32·94 miles 13¼ | 1,52,312 | 10,292 cwt. 32·94 miles 13¼ | 1,56,160 | 2,948 | .. |

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1894–95—*cont.*

| Districts. | Surveying, &c., Instruments | | | | Tools | | | | Machinery | | | | Furniture. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Direction .. .. .. .. | 75 | 750 | 41 | 454 | 1 | 30 | 1 | 30 | .. | .. | .. | .. | 94 | 705 | 95 | 720 |
| South Canara .. .. .. | 85 | 870 | 98 | 1,066 | 498 | 666 | 512 | 691 | .. | .. | .. | .. | 140 | 1,195 | 144 | 1,248 |
| North Malabar .. .. .. | 46 | 701 | 46 | 701 | 73 | 792 | 73 | 792 | .. | .. | .. | .. | .. | .. | .. | .. |
| South do. .. .. .. | 13 | 409 | 23 | 915 | 532 | 588 | 541 | 601 | 10 | 60 | 10 | 60 | 40 | 395 | 40 | 395 |
| Nilgiris .. .. .. .. | 26 | 262 | 29 | 437 | 784 | 1,472 | 1,000 | 1,674 | 4 | 1,820 | 2 | 500 | 74 | 540 | 82 | 562 |
| North Coimbatore .. .. .. | 37 | 699 | 60 | 1,321 | 393 | 1,150 | 421 | 1,176 | .. | .. | .. | .. | 155 | 1,344 | 157 | 1,357 |
| South do. .. .. .. | 58 | 1,000 | 92 | 1,632 | 370 | 306 | 355 | 346 | 3,289 | 42,677 | 3,289 | 42,677 | 239 | 1,235 | 236 | 1,235 |
| Madura .. .. .. .. | 60 | 1,007 | 60 | 1,007 | 643 | 5,436 | 643 | 5,436 | .. | .. | .. | .. | 188 | 1,787 | 188 | 1,787 |
| Tinnevelly .. .. .. .. | 60 | 1,308 | 93 | 1,592 | 728 | 2,027 | 377 | 1,784 | 14 | 178 | 14 | 263 | 335 | 1,977 | 333 | 1,987 |
| Total .. | 460 | 7,006 | 542 | 9,125 | 4,022 | 12,467 | 3,923 | 12,533 | 3,317 | 44,735 | 3,315 | 43,500 | 1,265 | 9,178 | 1,275 | 9,291 |
| Grand Total .. | 1,334 | 16,398 | 1,473 | 18,929 | 13,493 | 27,651 | 1,331 | 27,641 | 3,360 | 104,817 | 3,358 | 103,582 | 2,991 | 28,158 | 3,063 | 28,812 |

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1894–95—*cont.*

| Districts. | Buildings | | | | Live--stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 637 | 554 | 623 | 549 | 807 | 2,039 | 760 | 1,753 | .. | 286 |
| South Canara .. .. | 22 | 7,533 | 22 | 7,533 | .. | .. | .. | .. | 456 | 1,213 | 463 | 1,415 | 1,201 | 11,477 | 1,239 | 11,953 | 476 | .. |
| North Malabar .. | .. | .. | .. | .. | 10 | 8,450 | 10 | 8,450 | 8 | 61 | 8 | 61 | 137 | 10,004 | 137 | 10,004 | .. | .. |
| South do. .. .. | 24 | 28,877 | 24 | 31,730 | 23 | 33,000 | 28 | 34,000 | 117 | 1,118 | 137 | 1,200 | 759 | 64,447 | 803 | 68,901 | 4,454 | .. |
| Nilgiris .. .. .. | 48 | 6,203 | 48 | 6,203 | 5 | 2,600 | 5 | 3,500 | 15 | 128 | 17 | 146 | 956 | 13,025 | 1,183 | 13,022 | .. | 3 |
| North Coimbatore .. | 51 | 13,020 | 51 | 13,020 | .. | .. | .. | .. | 291 | 577 | 303 | 590 | 927 | 16,790 | 992 | 17,464 | 674 | .. |
| South do. .. | 40 | 25,457 | 40 | 27,069 | 10 | 10,200 | 9 | 9,700 | 277 | 572 | 293 | 709 | 4,283 | 81,447 | 4,314 | 83,371 | 1,924 | .. |
| Madura .. .. .. | 97 | 36,974 | 97 | 26,974 | .. | .. | .. | .. | .. | .. | .. | .. | 988 | 35,204 | 988 | 35,204 | .. | .. |
| Tinnevelly .. .. | 98 | 18,383 | 105 | 26,604 | .. | .. | .. | .. | .. | .. | .. | .. | 1,235 | 23,873 | 922 | 26,230 | 2,357 | .. |
| Total .. | 380 | 1,26,447 | 387 | 1,33,133 | 48 | 54,250 | 52 | 55,650 | 1,801 | 4,223 | 1,844 | 4,670 | 11,293 | 2,58,306 | 11,338 | 2,67,902 | 9,596 | .. |
| Grand Total .. | 753 | 2,42,822 | 796 | 2,78,869 | 51 | 55,787 | 54 | 57,468 | 3,443 | 25,318 | 4,410 | 26,765 | 25,425 | 5,00,951 | 26,485 | 5,42,066 | 41,115 | .. |

## ANNUAL FORM No. 74.

*Forest Department, Madras Presidency.*

## STATEMENT of Live-stock during 1894–95.

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## PART I.

*In possession of the reporting officers throughout the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average cost of monthly keep, including servants and food. | RS. | A. | P. |
|---|---|---|---|---|---|---|
| | *Elephants.* | | | | | |
| North Malabar .. | 1. Phyllis .. .. | Purchased in January 1878 .. .. | Per head .. | 35 | 14 | 2 |
| | 2. Peri .. .. .. | Captured in April 1889 .. .. .. | | | | |
| | 3. Kalyani .. .. | Purchased in October 1889 .. .. | | | | |
| | 4. Lallameah .. .. | Captured in March 1891 .. .. | | | | |
| | 5. Cherry .. .. .. | Do. in May 1892 .. .. .. | | | | |
| South Malabar .. | 1. Vixen .. .. .. | Transferred from Wynaad in 1882 .. | Do. .. | 32 | 2 | 11 |
| | 2. Peyru .. .. .. | | | | | |
| | 3. Samson .. .. | Purchased from Mr. Morgan in 1885 .. | | | | |
| | 4. Eva .. .. .. | | | | | |
| | 5. Theebow .. .. | Captured on 3rd January 1886 .. | | | | |
| | 6. Juno .. .. .. | Do. on 17th February 1886 .. | | | | |
| | 7. Jupiter .. .. | Do. on 9th January 1887 .. | | | | |
| | 8. Maharajah .. .. | Transferred from Wynaad on 29th September 1888. | | | | |
| | 9. Jumbu .. .. | | | | | |
| | 10. Gordon .. .. | Captured on 11th February 1889 .. | | | | |
| | 11. Eddy .. .. .. | Do. on 10th February 1890 .. | | | | |
| | 12. Mary .. .. .. | Do. on 31st March 1890 .. .. | | | | |
| | 13. Loo .. .. .. | Do. on 2nd April ,, .. .. | | | | |
| | 14. Hercules .. .. | Do. on 24th December 1890 .. | | | | |
| | 15. Parvathi .. .. | Transferred from South Coimbatore in August 1891. | | | | |
| | 16. Jessie .. .. .. | Captured on 10th December 1891 .. | | | | |
| | 17. Tippu .. .. .. | Do. on 25th February 1893 .. | | | | |
| | 18. Maharani .. .. | Do. on 2nd March 1893 .. .. | | | | |
| | 19. Venus .. .. | Do. on 1st April 1893 .. .. | | | | |
| | 20. Alice .. .. .. | Transferred from South Coimbatore in December 1893. | | | | |
| | 21. Pragasam .. .. | | | | | |
| | 22. Dora .. .. .. | Captured on 16th March 1894 .. .. | | | | |
| Nilgiris .. .. | 1. Latchmi .. .. | Transferred from the Anamalais on the 30th January 1892 .. .. | Do. .. | 42 | 4 | 3 |
| | 2. Chinna Latchmi .. | | | | | |
| | 3. Akbar Baksh .. .. | Born in 22nd February 1888 .. .. | | | | |
| | 4. Meenatchi .. .. | Do. on 9th April 1889 .. .. .. | | | | |
| South Coimbatore. | 1. Sankara .. .. | Received from North Malabar on 28th June 1888. | Do. .. | 31 | 6 | 7 |
| | 2. Chloe .. .. .. | | | | | |
| | 3. Karthiyayani .. .. | Received from South Malabar, August 1888. | | | | |
| | 4. Peria Rani .. .. | Do. do. May 1889. | | | | |
| | 5. Sinna Rani .. .. | Do. do. 19th August 1891. | | | | |
| | 6. Abdul .. .. .. | Captured, 4th October 1891 .. .. | | | | |
| | 7. Phyllis, II .. .. | Captured, 25th September 1892 .. | | | | |
| | 8. Jumbu, II .. .. | | | | | |
| | 9. Ranger * .. .. | Do. 23rd July 1893 .. .. | | | | |
| | *Other Cattle.* | | | | | |
| North Malabar .. | Three bullocks .. .. | Purchased in May 1890 and in June 1892. | Do. .. | 9 | 7 | 4 |

* Was omitted to be shown by mistake in Part II of 1893–94 Return.

## Statement of Live-stock during 1894–95—*cont.*

### Part II.

*Received during the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average cost of monthly keep, including servants and food. | |
|---|---|---|---|---|
| | *Elephants.* | | | Rs. A. P. |
| Conservator, Northern Circle. | Captain Gunning .. | Purchased in July 1888 .. .. .. | Per head .. | 31 8 3 |
| Ganjám .. .. | Kesari Pyari .. .. | Purchased in November 1894 at the Sonepur fair. | Do. .. | 45 5 6 |
| Vizagapatam .. | Mothimala .. .. | Do. do. | Do. .. | 54 14 0 |
| Gódávari .. .. | Surat Pari .. .. | Do. do. | Do. .. | 44 0 9 |
| Kurnool .. .. | Byrog Piari .. .. | Do. do. | Do. .. | 40 11 5 |
| South Canara .. | Canara Shankara .. | Purchased on 2nd August 1894 .. .. | Do. .. | 38 15 10 |
| North Malabar .. | 1. Allen .. .. .. | Captured, 20th February 1895 .. .. | Do. .. | 28 2 0 |
| | 2. Ethel .. .. .. | Do. 18th April 1895 .. .. | | |
| | 3. Umrakhan .. .. | Do. 27th ,, ,, .. .. | | |
| | 4. Ashee Bee .. .. | Do. 21st June ,, .. .. | | |
| South Malabar .. | 1. Bagavathy .. .. | Received from North Malabar on 29th August 1894, captured on 27th June 1893. | Do. .. | 22 2 7 |
| | 2. Charlie .. .. | Received from North Malabar on 29th August 1894, captured in February 1893. | | |
| | 3. Percy .. .. .. | Captured on 22nd November 1894 .. | | |
| | 4. May .. .. .. | Do. on 23rd ,, ,, .. | | |
| | 5. Harry .. .. | Do. on 11th February 1895 .. | | |
| | 6. Cerise .. .. | Received from South Coimbatore (captured on 20th October 1893). | | |
| Nilgiris .. .. | N. Latchmi .. .. | Purchased in September 1894 .. .. | Do. .. | 55 5 7 |
| South Coimbatore | 1. Forester .. .. | Captured, 10th August ,, .. .. | Do. .. | 31 6 7 |
| | 2. Penelope .. .. | Do. 18th ,, ,, .. .. | | |
| | 3. Elsie .. .. .. | Do. 18th ,, ,, .. .. | | |
| | 4. Ganish .. .. | Do. 4th September ,, .. .. | | |

### Part III.

*Gone off the list during the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average cost of monthly keep, including servants and food. | | | How disposed of. |
|---|---|---|---|---|---|---|
| | *Elephants.* | | | Rs. | A. P. | |
| Ganjám .. | Captain Gunning. | Purchased in July 1888 .. | Per head .. | 51 | 11 8 | Transferred to Conservator's charge in February 1895. |
| North Malabar. | 1. Charlie .. | Captured in February 1893. | Do. .. | 22 | 2 7 | Transferred to South Malabar. |
| | 2. Bagavathy .. | Captured on 27th June 1893. | Do. .. | 28 | 2 0 | Do. |
| | 3. Allen .. .. | Captured on 20th February 1895. | Do. .. | 28 | 2 0 | Sold. |
| | 4. Umrakhan .. | Captured on 27th April 1895. | | | | |
| South Malabar. | Mars .. .. | Do. 24th January 1887. | Do. .. | 14 | 2 7 | Sold to Porayennur Manakal Chitrabanu Nambudripad on 4th September 1894. |
| Nilgiris .. | Mabu Baksh .. | Born in January 1885 .. | Do. .. | 42 | 4 8 | Shot—*vide* Board's Proceedings, dated 24th January 1895 Forest Mis. No. 82. |
| South Coimbatore. | 1. Cerise * .. | Captured, 20th October 1893. | Do. .. | 31 | 6 7 | Transfererd to South Malabar on 7th March 1895. |
| | 2. Forester .. | Do. 10th August 1894. | | | | Died on 9th February 1895. |
| | 3. Penelope .. | Do. 18th ,, ,, | | | | Died on 31st December 1894. |
| | 4. Elsie .. .. | Do. 18th ,, ,, | | | | Died on 19th May 1895. |
| | 5. Ganish .. | Do. 4th Sept. ,, | | | | Died on 13th February 1895. |

* Was omitted to be shown by mistake in Part II of 1893–94 Return.

GOVERNMENT OF MADRAS.

## REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), Forest No. 655, dated 29th November 1895 :—

*Read*—File of reports received from Collectors and Conservators on the progress of Forest Administration for 1894–95.

*Resolution*—Forest No. 655, dated 29th November 1895.

The Board begs to submit to Government the progress report of Forest Administration in the Madras Presidency for the year ending 30th June 1895.

2. The entire report has this year been prepared for the approval of the Board by the Conservator, Central Circle, in deference to the wish expressed by Government in paragraph 2 of G.O., No. 31, Revenue, dated 22nd January 1895, and in view of the suggestion made in G.O., No. 2346, Revenue, dated 12th June 1895. The Board has delayed replying to the last-quoted Government Order, in order to ascertain, by actual experience, what modifications would be required in the sections of the Code relating to the preparation of the Budget and Administration Report in order to give effect to the proposals made by Government.

3. The delay which has again occurred in the submission of the report is regretted, but it was unavoidable. The report of the North Arcot district was received fifteen days after the prescribed date, and certain revised returns called for from Madura did not reach the Board's office till the 1st instant, though repeated reminders were sent.

(True Extract.)

(Signed) L. M. WYNCH,
Secretary.

To the Secretary to Government, Revenue Department, with the Report.

ORDER—No. 143, Revenue, dated 24th March 1896.

Forest No. 68.

The Forest Administration Report for the year ending 30th June 1895 reached the Government office on the 4th December, the prescribed date being the 15th November. The delay is attributed to want of punctuality in the submission of the returns due from the districts of North Arcot and Madura; the Government observes that this is the second year in succession in which the Board has had reason to complain of delays in the latter district.

2. With reference to the suggestion that the Senior Conservator might, with advantage, be made *ex-officio* Forest Secretary to the Board, and in view of the Government of India's desire that all technical subjects should be reviewed by a professional officer, the Board has on this occasion entrusted the preparation of the entire Administration Report to the Senior Conservator, Mr. E. P. Popert.

3. The most important feature of the year's administration was the settlement of the policy to be pursued in future in regard to the reservation of new areas and the general management of State forests. As was remarked in paragraph 6 of the last review (G.O., No. 31, Revenue, dated 22nd January 1895), the Madras orders of October 1890 coincided in their main principles with the policy laid down by the Government of India in its Resolution, No. 22, Forest, dated 19th October 1894, but there were certain differences in regard to the management of minor forests and pasture lands. The Government of India was of opinion that such areas, when situated in the midst of cultivated tracts, should be constituted "protected" rather than "reserved" forests, and that they should mainly be controlled by the villagers themselves, interference on the part of the Forest Department being as far as possible restricted. It was, however, pointed out that experience in this Presidency had demonstrated the impracticability of establishing a system of village forests and the necessity of resorting to absolute reservation in order to protect *all* classes of forest areas; it was at the same time explained that undue interference with the agricultural population was restricted by prohibiting the formation of small reserves scattered here and there amongst cultivated lands and by prescribing a minimum limit of 300 acres for each reserve. In view of these circumstances the Government of India approved the continuance of the forest policy enunciated in this Presidency in October 1890, but suggested that the minimum area of reserves should be raised from 300 acres to one square mile, and at the same time requested information as to whether this change would render it possible to modify the revised proposals for strengthening the subordinate executive staff, sanction to which had been solicited in March 1894. The suggestion was accepted, and the Government in May 1895 accordingly called upon the Board to submit proposals for the disafforestation of reserved forests falling below that area. The proposals relating to several districts have been received, and orders have already been passed in certain cases, but until the whole question has been disposed of, it is impossible to say to what extent the change in policy is likely to affect the area under the control of the department. It is observed that the Board is of opinion that no large reduction of the proposed subordinate staff will be possible.

4. The year under review was further marked by the introduction of the revised Forest Code and the issue of revised rules regulating the use of the pasturage and natural produce of lands at the disposal of Government and not included in reserved forests or municipalities.

5. *Areas and boundaries.*—The following statement compares the areas of reserved forests and lands under management at the commencement and close of the year:—

| Classes of lands. | Area on 1st July 1894. | Added during 1894–95. | Excluded during 1894–95. | Net increase. | Area on 30th June 1895. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Reserved forests .. | 10,786 | (*a*) 695 | (*c*) 15 | 680 | 11,466 |
| Reserved lands .. | 7,224 | (*b*) 996 | (*d*) 896 | 100 | 7,324 |
| | 18,010 | 1,691 | 911 | 780 | 18,790 |

(*a*) An addition of 15 square miles due to rectification of area.
(*b*) An addition of 29 square miles due to rectification of area, &c.
(*c*) A deduction of 14 square miles due to rectification of area and of 1 square mile due to disafforestation.
(*d*) 115 square miles unreserved, 50 square miles excluded at settlement, and deduction of 51 square miles due to rectification of area, &c.

From the statement given in paragraph 12 of the report, it appears that the total area under control—18,790 square miles—represents 19·7 per cent. of the area of lands still at the disposal of Government; but the figures appearing in columns 2 to 7 of the statement (Abstract B) given in paragraph 12 of the report differ so materially from those furnished in previous reports that the Government is doubtful whether their accuracy can be relied upon. Thus, in Kurnool the area of the district excluding zamindari and whole inam villages is said to be 7,310 square miles, whereas in 1893–94 the same area was estimated at 5,924 square miles. The variations in other districts are less striking, but taken together they raise the total area under this heading for the whole Presidency from 86,380 to 95,104 square miles. Another striking

feature in the statement is the remarkable advance in the extent for which returns are reported not to be available; the figure given in the previous year's report was 4,954 square miles, that for the year under review is 17,962, or nearly 20 per cent. of the total area of Government lands. In the absence of statistics relating to so large an area as this, the Government cannot ascertain, with sufficient exactness, what proportion of the unoccupied lands at its disposal have been dealt with under the Forest Act, and one useful means of gauging the adequacy of reservation is thus wanting. The statistics to which exception has been taken are reported to have been furnished by the Settlement Department of the Board of Revenue, and that department of the Board will now be requested to explain the enormous variations in the figures for two consecutive years, and to state the reasons which have prevented the compilation of returns for so large an area as nearly 18,000 square miles. As to the adequacy of reservation, a question regarding which the Government of India has made special enquiries, the Board's report affords but little information. The work of selection appears to be approaching completion, but without detailed statistics regarding each district the Government is not in a position to affirm that the proposals in regard to reservation are adequate, more especially since the accuracy of the statistics relating to the area of Government lands is open to question. The separate proposals for districts received in reply to G.O., No. 261, dated 10th May 1895, however, as a rule furnish more complete information; and when orders have been passed on these, the Board should be in a position to estimate, with some degree of accuracy, the area which will ultimately be brought under the control of the Forest Department in this Presidency.

6. *Settlement.*—The outturn of Forest Settlement work exhibits a continuance of the fall noticed in last year's review as appears from the subjoined table:—

AREA notified under section 16 of the Forest Act.

| 1890–91. | 1891–92. | 1892–93 (15 months ending 30th June 1893). | 1893–94. | 1894–95. |
|---|---|---|---|---|
| SQ. MLS. 1,374 | SQ. MLS. 2,063 | SQ. MLS. 2,261 | SQ. MLS. 1,350 | SQ. MLS. 680 |

In paragraph 7 of the last review it was explained, however, that the area of reserves to be credited to 1893–94 was only 743 square miles. Adopting the same method of calculation, *i.e.*, excluding from consideration 128 square miles notified in 1893–94 with effect from after the 30th June 1894 and taking into account 361 square miles notified in 1894–95 with effect from after the 30th June 1895, the total final reservation of the year under review amounts to 913 square miles, or 170 miles more than in the preceding year. These figures go to show that the abnormally high outturn of settlement work in the period 1891–93 will hardly be sustained and that the estimate of the probable rate of progress framed in paragraph 5 of G.O., No. 31, Revenue, dated 22nd January 1895, is not likely to be worked up to. The falling-off has been explained by the Board in a separate Proceedings, viz., Board's Proceedings, Forest Mis. No. 2, of 2nd January 1896, as attributable to "the fact that the blocks settled in former years were large hill blocks, comparatively free of rights and easy to settle." The report does not furnish details as to the area selected for reservation though not yet brought under the operations of the Act, but full information has since been supplied by the Board in its Proceedings just referred to, from which it appears that the total area awaiting settlement on the 1st November 1895 amounted to 8,276 square miles as shown below:—

| | SQ. MLS. |
|---|---|
| (i) Notified under section 4 ... ... ... ... ... | 5,121 |
| (ii) Area of reserved lands not brought under settlement ... | 1,710 |
| (iii) Further selections (estimated figure) ... ... ... ... | 1,445 |
| Total ... | 8,276 |

On the 1st November last, final reports had been submitted in respect of 2,060 square miles out of this total; and the balance—6,216 square miles—alone need be considered. During the two years and eleven months immediately preceding that date the Special Settlement Officers produced an average outturn of about 1,100 square miles per annum; if this rate of progress is maintained and the Secretary of State sanctions the recent proposal to increase their number from four to five, the work of Forest settlement should be brought to completion in five years, *i.e.*, by the close of 1900. This estimate designedly leaves out of consideration the work of Revenue Divisional officers; these officers during the 3¼ years ending June 1895 finally settled only 433 square miles; with the advent of an additional special officer, settlement work will devolve on a smaller number of Revenue Divisional officers and their work is hardly likely to be more than equivalent to the extra labour cast upon the special officers by the necessity of revising many of the final reports which were pending with the Board of Revenue on the 1st November last.

Turning to the work of particular officers during the year under review, the Government observes that Mr. Lever's outturn was again much inferior to that of other officers; he has since been withdrawn from settlement work, but the Board should call for an explanation from him and submit it for the information of Government. On the other hand, the work of Mr. W. C. McMurray appears to have been particularly good. The progress made by Revenue Divisional officers was no more rapid than in 1893–94, the number of blocks settled being larger but the area involved smaller.

| | Number of blocks. | Area in square miles. |
|---|---|---|
| * 1893–94 ... ... | 66 | 167 |
| 1894–95 ... ... | 85 | 140 |

From Appendix A to the report it appears that 107 blocks notified under section 4 in and prior to 1889–90 were still under settlement, the corresponding number at the end of the previous year being 131. The Government regrets that so little progress was made during the year in the settlement of these long-pending blocks and desires that the Board will devote special attention to the matter. The areas shown in this appendix differ materially from those appearing in the similar return for the previous year and no explanation of the variations is appended. They are doubtless in many cases due merely to rectification of areas, but if so, the fact should have been mentioned in a foot-note. This explanation, however, does not account for all discrepancies. Thus, in the columns relating to the Cuddapah district, the balance of lands under settlement, as shown in the appendix for the year under review, includes five blocks with an aggregate area of 83 square miles said to have been notified under section 4 in the year 1886–87, whereas in the previous return the balance includes no areas notified in that year. Again, in the Salem district, two blocks of eight miles in extent and four blocks of 40 miles in extent are shown as relating to the years 1888–89 and 1889–90, respectively, whereas the balance under settlement shown in Appendix A in last year's report includes only three blocks aggregating fifteen miles in area, which were notified in 1889–90, while the extent of the two blocks appertaining to 1888–89 appears as 19 and not 8 miles. Again, only ten blocks notified in 1887–88 were shown in last year's report as pending settlement in South Malabar, while the number mentioned in the current return is twelve. Unexplained discrepancies of this character would seem to show that the statistical portion of the administration report is not scrutinized with sufficient care in the Board's office.

7. *Demarcation.*—The following table compares the outturn of demarcation work during the past four years:—

| | Preliminary. | | | | Permanent. | | | | Re-clearing open lines. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1891–92. | 1892–93, 1st year. | 1893–94. | 1894–95. | 1891–92. | 1892–93. | 1893–94. | 1894–95. | 1891–92. | 1892–93. | 1893–94. | 1894–95. |
| | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. | Figures not available. | MLS. | MLS. |
| Northern Circle .. .. .. | 499 | 659 | 1,474 | 896 | 655 | 282 | 404 | 499 | 173 | | 152 | 270 |
| Central Circle .. .. .. | 992 | 1,175 | 1,423 | 1,527 | 861 | 1,767 | 1,584 | 1,542 | .. | | 815 | 991 |
| Southern Circle .. .. .. | 373 | 793 | 585 | 798 | 913 | 788 | 367 | 230 | .. | | 740 | 471 |
| Total .. | 1,864 | .. | 3,482 | 3,221 | 2,429 | .. | 2,355 | 2,271 | 173 | | 1,707 | 1,432 |

The total outturn was thus somewhat less than in the previous year, but the work done is reported to have been commensurate with the requirements of administration and the average cost per mile of demarcation was much lower than in either of the two preceding years as the subjoined figures show:—

| Year. | Rate per mile of | |
|---|---|---|
| | Preliminary demarcation. | Permanent demarcation. |
| | Rs. A. P. | Rs. A. P. |
| 1892–93 .. .. .. .. .. .. | 5 8 4 | 15 13 3 |
| 1893–94 .. .. .. .. .. .. | 2 7 1 | 11 0 9 |
| 1894–95 .. .. .. .. .. .. | 2 5 2 | 9 0 10 |

The variations in the cost of demarcation in the several districts of the Presidency were less striking than in 1893–94, and the report furnishes adequate explanations for them.

8. *Surveys and working plans.*—The Survey of India Party has performed its duties with continuously increasing efficiency since 1888 and the year under review witnessed the largest recorded outturn of topographical work, while the cost per square mile was lower than in any preceding year. Departmental surveys were as usual carried out in connection with the selection and settlement of reserves, and the report for the first time contains detailed information of the progress made in the preparation of the maps which should be maintained as a permanent record in accordance with the requirements of section 81 of the Forest Code. The district reports, which are abstracted in Appendix D, however, in many cases fail to give the needed information. What is required is a succinct statement of the progress made during the year, together with particulars as to the stage which has been reached in the preparation of each of the four classes of maps prescribed by the Code. The Government observes that in certain districts little or no action is being taken in this direction pending the advent of the Survey of India Party. A second party will shortly be deputed to work in this Presidency, and as soon as its plan of operations is settled, the Board should take steps to see that more active progress is made in the preparation of maps. The ordinary departmental staff should be competent to perform much of the work, but in cases where special assistance is really needed, and the services of a Survey of India Party cannot be made available, it may be necessary to employ temporary surveyors and draughtsmen. A comparison of Appendix E with the corresponding statement (Appendix D) in last year's report discloses an apparent decrease of 1,784 * square miles in the area of reserved forests for which final maps have been prepared. Discrepancies are in certain cases explained, but the most remarkable of all is not alluded to by the Board. This is in Kurnool where the area shown as finally mapped at the close of 1893–94 was 1,734 square miles, while the corresponding entry in the later return is blank; the discrepancy should now be explained. The variations from year to year in this return are striking and mistakes seem to be frequent owing chiefly to misapprehension of the meaning of the expression "final map." The "final map" is of course that prescribed in clause (3) of section 81 of the Forest Code; the attention of Collectors should again be drawn to the fact and they should be requested to scrutinize the next returns relating to this subject with special care.

| | Sq. mls. |
|---|---|
| * 1893–94 ... ... ... ... | 7,943 |
| 1894–95 ... ... ... ... | 6,159 |

Paragraph 28 of the report deals with the preparation of working plans, a branch of the administration in which but little progress has been made in consequence of inadequate establishments and the more imperative calls of settlement work. The Government, however, notes that the Board anticipates "appreciable progress" in the current year in the drawing up of "simple working plans based upon area."

9. *Forest offences.*—The following statement exhibits the number of forest cases dealt with during the past years, together with the nature of their disposal:—

| | Number of cases for disposal. | | | Number of cases disposed of. | | | | Number of acquittals. | Percentage of cases compounded to cases disposed of. | Percentage of acquittals to cases dealt with by magistracy. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cases pending. | New cases. | Total. | Withdrawn. | Compounded. | Dealt with by magistracy. | Total. | | | |
| 1892–93 .. | 1,556 | 10,905 | 12,461 | 696 | 4,106 | 5,676 | 10,478 | 1,218 | 39·2 | 21·5 |
| 1893–94 .. | 1,965 | 10,007 | 11,972 | 794 | 5,309 | 4,231 | 10,334 | 919 | 51·3 | 21·6 |
| 1894–95 .. | * 1,604 | 9,883 | 11,487 | 904 | 5,109 | 4,039 | 10,052 | 750 | 50·8 | 18·6 |

* According to the last year's report this is 1,638. The discrepancy is due to an error in the Vizagapatam report for 1893–94.

It is satisfactory to notice that a decline in the percentage of acquittals took place in all three circles, but there is still much room for improvement in this direction. The slight decrease in the number of new cases is more than explained by the variation in the single district of South Canara, where it is reported that petty offences were for the first time disposed of by the District Forest-officer without having resort to the criminal courts. The results of this change in procedure, as the Board remarks, should be carefully watched. In regard to the general principle the Government is in agreement with the Board in the opinion that simple trespass should, as a rule, not be treated as an offence at all. It would, however, be necessary to take notice of trespass, if there were reason to suspect that it was accompanied by petty thefts or danger by fire, or likely to lead to the commission of more serious offences.

The amount of compensation realized during the year under review was the highest on record; the marginal table † shows how rapid has been the advance in the revenue derived from this source. In paragraph 32 of the report it is stated that illicit grazing is extensively carried on in the Tiruvannámalai range of the South Arcot district in spite of the levying of enhanced rates of composition. This appears to indicate either that the rates need further enhancement, or that sufficient provision has not been made for the grazing requirements of the neighbourhood. The matter should form the subject of enquiry. The explanation called for in regard to the compounding of a serious case of charcoal burning in Bellary district should be submitted for the information of Government.

| † Year. | Number of new cases. | Amount of compensation. |
|---|---|---|
| | | Rs. |
| 1890–91 .. .. .. | 5,577 | 15,759 |
| 1891–92 .. .. .. | 8,124 | 27,385 |
| 1892–93 .. .. .. | 10,905 | 33,493 |
| 1893–94 .. .. .. | 10,007 | 37,595 |
| 1894–95 .. .. .. | 9,883 | 44,618 |

10. *Forest fires and fire-protection.*—The area which it was attempted to protect from fire was slightly less than in the preceding year—4,979 against 5,044 square miles. The reported percentage of success (94) was identical, but the cost of protection declined considerably in each circle, the average expenditure per square mile falling from Rs. 9–2–5 to Rs. 8–7–11. The results achieved appear to have been least successful in Kurnool, North Malabar and Tinnevelly, where 33, 17 and 11 per cent., respectively, of the protected area was burnt; but the Government notes that the Board considers the area burnt to have been under-estimated in other districts, particularly Anantapur.

11. *Grazing.*—The revenue derived from grazing fees ‡ continues to advance rapidly—a result which the Board attributes to more efficient control and improvements in the method of collection, and which, it states, is not due to increased rates or unnecessary restrictions. By far the largest share was contributed by the

‡ Grazing fees.

| | Rs. | | Rs. |
|---|---|---|---|
| 1890–91 .. | 1,50,015 | 1893–94 .. | 2,66,891 |
| 1891–92 .. | 1,83,722 | 1894–95 .. | 3,28,293 |
| 1892–93 .. | 1,75,589 | | |

Kistna district (Rs. 90,144) where a marked increase in revenue took place; this is attributed by the Board to the *parcellaire* system which appears to have worked with success, the advance in receipts being accompanied by a decrease in the number of cattle impounded and a comparative absence of complaints. The Government would be glad to receive in due course a brief report of the results of the introduction into the Tinnevelly district of the rotatory grazing system described in paragraph 36 of the report.

12. *Reproduction.*—Appendix G to the report contains an interesting series of notes on natural reproduction in the several districts, a brief resumé of which appears in paragraph 38 of the report. It is satisfactory to learn that protection from cattle has resulted in a distinct improvement in the sholas on the Nilgiri plateau. The successful regermination of date and palmyra in parts of Bellary district would seem to indicate the desirability of extending the artificial plantation of these trees.

The total area of plantations maintained during the year was 22,237 acres, the cost of maintenance being Rs. 33,298 against Rs. 38,764 in the previous year when the extent newly added was much less. The additions made during the year consisted chiefly of casuarina and jack.

13. *Communications and buildings.*—The gross expenditure under this head amounted to Rs. 69,413, nearly half of which was laid out upon buildings. There appears in some districts to be a tendency to devote too much attention to the construction of buildings and too little to the extension of communications, but this will no doubt be checked as soon as the general scheme for the development of forest roads is ready for introduction. The working of the several tramways is detailed in Appendix I. In Nellore the profit in the Sríharikóta range was less than in the preceding year owing apparently to the fact that the waggons were for a time undergoing repairs; the total net loss on the line is, however, now only trifling. The Casuarina Plantation range tramway in the same district continued to work with success and the loss on the Cuddapah line was materially reduced. In South Coimbatore there was still a heavy deficit in spite of a reduction in the cost of carriage. The estimated cost of carting, as shown in the appendix, varies at the different tramways from As. 4–3 to Rs. 1–0–8 per ton mile; the variations are no doubt due to local conditions, but the statement would be improved by the addition of a brief foot-note explaining the data upon which the estimates are based.

14. *Yield and working.*—The following statement shows the forest yield during the last four years:—

| — | Timber including sandal-wood. | Fuel. | Bamboos in number. | Minor produce (gross value). |
|---|---|---|---|---|
| | C. FT. | C. FT. | | RS. |
| 1891–92 | 3,086,937 | 13,987,173 | 31,150,765 | 6,40,842 |
| 1892–93 (fifteen months) | 2,966,556 | 12,138,565 | 20,779,393 | 8,03,255 |
| 1893–94 | 3,072,496 | 12,184,996 | 25,304,261 | * 7,89,661 |
| 1894–95 | 2,777,658 | 12,025,734 | 29,793,195 | 8,81,070 |
| Increase or decrease in 1894–95 as compared with 1893–94. | — 294,838 | — 159,262 | + 4,488,934 | + 91,409 |
| Percentage of increase or decrease | — 9·5 | — 1·3 | + 17·7 | + 11·5 |

* Rs. 1,395 was wrongly shown in excess in the previous year's abstract.

The yield of timber and fuel thus decreased, while that of bamboos and minor produce exhibited a striking advance. The cost of collection by departmental agency was reduced in the case of timber, sandal-wood and minor produce, but materially enhanced in that of fuel and bamboos, and no reason for the enhancement has been assigned in the report.

15. *Financial results.*—The subjoined statement summarizes the financial results of the year:—

| | Northern Circle. | | | Central Circle. | | |
|---|---|---|---|---|---|---|
| | 1892–93 (15 months). | 1893–94. | 1894–95. | 1892–93 (15 months). | 1893–94. | 1894–95. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Rs. | R. | Rs. | Rs. | Rs. | Rs. |
| Receipts .. .. .. .. .. | 4,54,069 | 6,04,314 | 6,09,343 | 8,63,599 | 7,76,451 | 7,97,546 |
| Charges .. .. .. .. .. | 3,66,236 | 3,26,719 | 3,69,870 | 5,96,342 | 5,35,276 | 5,44,038 |
| Surplus or Deficit .. | + 87,833 | + 2,77,595 | 2,39,473 | + 2,68,257 | + 2,41,175 | + 2,53,508 |
| Increase or decrease during 1894–95 as compared with the preceding year 1893–94 .. .. .. | | — 38,122. | | | + 12,333. | |

| | Southern Circle. | | | All Circles. | | |
|---|---|---|---|---|---|---|
| | 1892–93 (15 months). | 1893–94. | 1894–95. | 1892–93 (15 months). | 1893–94. | 1894–95. |
| | 8 | 9 | 10 | 11 | 12 | 13 |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Receipts .. .. .. .. .. | 6,48,150 | 5,62,950 | 5,70,293 | 19,65,818 | 19,43,715 | 19,77,182 |
| Charges .. .. .. .. .. | 6,77,350 | 5,06,416 | 5,40,390 | 16,38,928 | 13,68,411 | 14,54,298 |
| Surplus or Deficit .. | — 29,200 | + 56,534 | + 29,903 | + 3,26,890 | 5,75,304 | + 5,22,884 |
| Increase or decrease during 1894–95 as compared with the preceding year 1893–94 .. .. .. .. | | — 26,631 | | | — 52,420 | |

The totals of both revenue and expenditure were the highest on record, but the surplus was less than in the preceding year owing chiefly to increased expenditure under establishment.

16. *Miscellaneous remarks.*—From paragraphs 57 and 58 of the report it appears that the Collectors of most districts have omitted to furnish the prescribed information regarding the maintenance of service and stock registers. The omission should not recur.

17. *Conclusion.*—The results of the year's administration were highly satisfactory in view of the admitted inadequacy of the subordinate establishments. The district inspection of the Conservators appears to have been thorough and the Government notes with pleasure that they speak favourably of the work of the District Forest-officers throughout the Presidency.

(True Extract.)

(Signed) A. T. ARUNDEL,
Ag. Secretary to Government.

# ANNUAL

# ADMINISTRATION REPORT

OF

# THE FOREST DEPARTMENT

## MADRAS PRESIDENCY,

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1896.

(1895-96.)

4 4 . h . 42

MADRAS:
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1897.

# TABLE OF CONTENTS.

## Chapter I.—Extension and Constitution of State Forests.


| | PARA. | PAGE |
|---|---|---|
| i. Alteration of Area— | | |
| Areas— | | |
| Changes during the 12 months. | 1 | 1 & 2 |
| District Areas and Forest Reserves. | 2 | 2 & 3 |
| Reserved Forests— | | |
| Area constituted during the 12 months .. .. .. | 3 | 4 |
| Estimate of Area to be eventually declared Reserved Forests .. | 4 | 4 & 5 |
| ii. Forest Settlements— | | |
| Progress in Settlement .. | 5–8 | 5–7 |
| Outturn of Work by Special Forest Settlement-officers .. | 9 | 8 |
| Outturn of other Settlement-officers (Divisional-officers) .. | 10 | 9 |
| Selections for further Reservation .. .. .. | 11 | 9 & 10 |
| Reserved Lands not brought under Settlement .. .. | 12 | 10 |
| iii. Demarcation— | | |
| Lengths demarcated .. | 13 & 14 | 10 & 11 |
| Preliminary Demarcation .. | 15 | 12 |
| Permanent do. .. | 16 | 12 |
| iv. Surveys— | | |
| Operations of the Survey of India Party .. .. | 17 | 13 |
| Departmental Surveys .. | 18 | 13 & 14 |
| Employment of Draughtsmen and the mapping of Reserved Forests . .. .. | 19 | 14 |


## Chapter II.—Management of State Forests.


| | | |
|---|---|---|
| 1. Regulation of Management— | | |
| Working Plans and their control. | 20 | 14–16 |
| Annual Plans of Operations .. | 21 | 16 |
| 2. Working of the year— | | |
| (*a*) Communications and Buildings— | | |
| General .. .. | 22 | 16 |
| Expenditure on Roads .. | 23 | 16 |
| Do. on Buildings. | 24 | 17 |
| Tramways .. .. | 25 | 17 |
| (*b*) Protection of Forests from Injury— | | |
| General Protection and Breaches of Forest Law. | 26–31 | 17–22 |
| Protection from Fire .. | 32 & 33 | 22–24 |
| Regulation of Grazing and Protection from Cattle .. | 34 | 24 |
| (*c*) Improvement of Forest growth— | | |
| Natural Reproduction .. | 35 | 24–26 |
| Artificial Reproduction, Plantations and Cultural Operations .. .. | 36 | 26–28 |
| Early Thinnings, other Operations for the improvement of the Growing Stock .. .. | 37 | 28 |
| Experiments .. .. | 38 | 28–31 |
| (*d*) Exploitation of Major Forest Produce— | | |
| Clear or Regeneration Fellings .. .. | 39 | 31 |
| Selection Fellings . | 40 | 31 & 32 |
| Improvement, Coppice, &c., Fellings .. | 41 | 32 |
| Unregulated Fellings .. | 42 | 32 |
| (*e*) Extraction and Transport of Major Forest Produce .. | 43 | 33 |
| (*f*) Exploitation of Minor Forest Produce— | | 33 |
| Extraction of Fodder .. | 44 | 33 |
| Grazing .. .. | 45 & 46 | 34 & 35 |
| Miscellaneous Produce .. | 47 | 35 |


## Chapter III.—Gross Yield and Outturn of Forest Produce.


| | | |
|---|---|---|
| Yield— | | |
| General .. .. .. | 48 | 35 & 36 |
| Departmental Operations | 49 | 36–38 |
| Removals by purchasers .. | 50 | 38 & 39 |
| Comparative Cost of Departmental and Private Working .. | 51 & 52 | 39 & 40 |
| Confiscated Produce .. .. | 52 | 40 |
| Free grants of Forest Produce .. | 54 | 40 |


## Chapter IV.—Financial Results.


| | | |
|---|---|---|
| Revenue and Expenditure .. .. .. .. .. .. .. | 55 | 40–42 |

## CHAPTER V.—FOREST ADMINISTRATION.


| | PARA. | PAGE. | | PARA. | PAGE. |
|---|---|---|---|---|---|
| Important Administrative Changes— | | | Audit of the Accounts of the District Forest office .. | 66 | 44 |
| Credit of Tree Revenue .. | 56 | 42 | Reorganization of the Subordinate staff .. .. .. | 67 | 45 |
| Rules under the Forest Act .. | 57 | | Forest School .. .. | 68 | |
| Working of the Rules under Section 26 of the Forest Act .. | 58 | 42 & 43 | Conduct and Work of the Establishment .. .. .. | 69 | |
| Permanent and Temporary Establishment .. .. .. | 59 | 43 | Health of the Establishment .. | 70 | |
| Coffee Cultivation in Reserved Forests .. .. .. | 60 | | Service Books .. .. | 71 | |
| Financial Control of the Conservators and the appointment of the Conservator, Central Circle, as Joint Secretary to the Board of Revenue .. .. | 61 | 43 & 44 | Inventory of Valuable Stock .. | 72 | 46 |
| Tours of Forest Member .. | 62 | 44 | Elephants .. .. .. | 73 | |
| Conservators' Inspections .. | 63 | | Rain-gauge .. .. .. | 74 | |
| Touring of District officers .. | 64 | | Mica .. .. .. | 75 | |
| Inspection of Range offices by District Forest-officers .. | 65 | | The Iron Industry in the Salem District .. .. .. | 76 | |
| | | | Madgole Estate .. .. | 77 | 46 & 47 |
| | | | Work done by Superior officers .. | 78 | 47 |


# APPENDICES.


| | | PAGES. |
|---|---|---|
| Appendix | A—Forest Settlement .. .. .. .. .. .. .. | i to iv |
| Do. | B—Causes of delay in the submission of final Notifications of Forest Reserves .. .. .. .. .. .. .. | v |
| Do. | C—Reserved Lands not under Settlement in square miles .. .. | vi |
| Do. | D—Abstract of District Reports in regard to the maintenance of Maps.. | vii |
| Do. | E—Statement showing the area of Forest Reserves for which final Maps have been prepared .. .. .. .. .. .. .. | viii |
| Do. | F—Statement showing the area of Forest Reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile .. .. .. .. .. .. .. .. | ix |

*(Annual Forms.)*

| | |
|---|---|
| Area of Reserved Forests (No. 44 A) .. .. .. .. .. .. .. | x |
| Area of Reserved Lands (No. 44 B) .. .. .. .. .. .. .. | xi |
| List of Reserved Forests (No. 44) .. .. .. .. .. .. .. | xii to xlvi |
| Progress made in, and expenditure incurred on, Forest Settlements (No. 45) .. | xlvii to lxiv |
| Demarcation and maintenance of boundaries (No. 46) .. .. .. . | lxv |
| Forest Areas Surveyed and under Survey (No. 47) .. .. .. .. .. | lxvi & lxvii |
| Progress made in Working Plans (No. 48) .. .. .. .. .. .. | lxviii |
| Communication and Buildings (No. 49) .. .. .. .. .. .. | lxix to lxxxiv |
| Prosecution for Breaches of Forest Laws (No. 50) .. .. .. .. .. | lxxxv & lxxxvi |
| Area of Forest Tracts protected from Fire (No. 51) .. .. .. .. .. | lxxxvii to xci |
| Areas open and closed to grazing (No. 52) .. .. .. .. .. .. | xcii |
| Area of Plantations (No. 53) .. .. .. .. .. .. .. .. | xciii to xcvi |
| Annual List of Topes (No. 54) .. .. .. .. .. .. .. .. | xcvii to cv |
| Statement showing the Outturn of Timber and Firewood and Agency of Exploitation (No. 55) .. .. .. .. .. .. .. .. .. | cvi & cvii |
| Outturn of Minor Forest Produce (No. 56) .. .. .. .. .. .. | cviii to cxiii |
| Account of Timber, &c., in Depôts and sold locally ( No. 57) .. .. .. | cxiv to cxix |
| Abstract showing the value of Timber and other Produce at Depôts (No. 58) .. | cxx to cxxiii |
| Timber and other Produce cut and collected and removed by Consumers (No. 72 A, Old Code) .. .. .. .. .. .. .. .. .. .. | cxxiv |
| Timber and other Produce confiscated and sold (No. 72 A, Old Code) .. .. | cxxv |
| Summary of Revenue and Expenditure (No. 59) .. .. .. .. .. | cxxvi to cxxxiv |
| Abstract of the above prepared in the Board's office .. .. .. .. .. | cxxxv & cxxxvi |
| Outstandings and Liabilities on account of Contractors and Disbursers (No. 60) .. | cxxxvii to cxl |
| Do. on account of Revenue (No. 61) .. .. .. .. .. .. | cxli & cxlii |
| Statement of Financial results (No. 62) .. .. .. .. .. .. .. | cxliii |
| Return of Elephants (No. 63) .. .. .. .. .. .. .. | cxliv |
| Abstract showing the value of Live-stock, Stores, Tools and Plant (No. 64) .. | cxlv to cxlviii |
| Statement showing the results of Transport of Wood by Tramways compared with the Transport by Carts (No. 65) .. .. .. .. .. .. .. | cxlix |

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

## FOR THE TWELVE MONTHS ENDING WITH 30TH JUNE 1896.

---

## CHAPTER I.

### EXTENSION AND CONSTITUTION OF STATE FORESTS.

### (i) *Alteration of Area.*

The changes that have taken place during the year in the area of the State forests are given in Forms Nos. 44-A and 44-B. A comparative statement of reserved forests and reserved lands at the beginning and at the end of the year under report, as well as the changes during the year, is presented in the following abstract :—

ABSTRACT A.—Classes and areas of forests.

| — | Area on 1st July 1895. | Added during the year. | Excluded during the year. | Net increase or decrease. | Area on the 30th June 1896. |
|---|---|---|---|---|---|
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Reserved forests .. .. .. .. .. | 3,835 | (a) 100, (b) 311 | (a) 108, (c) 3 | + 300 | 4,135 |
| Do. lands .. .. .. .. .. .. | 2,596 | (a) 22, (e) 274, (h) 1 | (a) 13, (f) 33, (g) 311, (c) 112 | — 172 | 2,424 |
| Total .. | 6,431 | 708 | 580 | + 128 | 6,559 |
| *Central Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 4,594 | (a) 42, (b) 521 | (a) 48, (c) 3, (a) 21 | + 512 | 5,106 |
| Do. lands .. .. .. .. .. .. | 2,184 | (a) 1, (e) 219 | (f) 48, (g) 521, (c) 38 | — 408 | 1,776 |
| Total .. | 6,778 | 783 | 679 | + 104 | 6,882 |
| *Southern Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 3,037 | (a) 85, (b) 26, (d) 1 | (c) 2 | + 110 | 3,147 |
| Do. lands .. .. .. .. .. .. | 2,544 | (a) 11, (e) 22 | (a) 14, (g) 26, (c) 46, (d) 1 | — 54 | 2,490 |
| Total .. | 5,581 | 145 | 89 | + 56 | 5,637 |
| *Total.* | | | | | |
| Reserved forests .. .. .. .. .. | 11,466 | (a) 227, (b) 858, (d) 1 | (a) 156, (c) 8 | + 922 | 12,388 |
| Do. lands .. .. .. .. .. | 7,324 | (a) 34, (e) 515, (h) 1 | (a) 48, (f) 81, (g) 858, (c) 196, (d) 1 | — 634 | 6,690 |
| Grand Total .. | 18,790 | 1,636 | 1,348 | 288 | 19,078 |

(a) Rectification of area. (b) Transferred from reserved lands. (c) Disafforested or unreserved.
(d) By rounding off fractions. (e) Newly-constituted reserved lands. (f) Excluded at settlement.
(g) Transferred to reserved forests. (h) By rounding off fraction in the previous year's return.

There was a net increase of only 288 square miles in the total area reserved under the Forest Act during the year as against an increase of 780 square miles during 1894–95. The decrease is partly ascribable to the new forest policy under which reservation is limited ordinarily to areas of one square mile and above; but it must be remembered that in several districts reservation had been practically completed before the end of 1894–95, and the annual increase must in the nature of things gradually become smaller, until in the end all the land required for reservation has been taken up. The increase during the year occurred chiefly in the districts of *Kistna* and *Bellary* in the *Northern Circle* where, large areas were notified as reserved lands under the rules under section 26, and in *Cuddapah* and *Salem* in the *Central Circle*, where large areas were notified under section 4 of the Act. The addition to the area of reserved forests was chiefly in *Gódávari*, *Bellary* and *Anantapur* in the *Northern Circle*, in *Cuddapah*, *South Arcot* and *Salem* in the *Central Circle* and in *South Coimbatore* in the *Southern Circle*. There was no actual addition to the area of the forests in the last-mentioned division by the constitution of new areas as reserves but the excess given over the figure shown in the last year's report is the result of the computation of the area of the previously existing reserves according to the Survey of India maps. The result of the survey by that Party showed a large increase also in *Salem* and a decrease in *South Arcot*. In *Salem* the Survey of India has not deducted the areas of enclosures admitted at settlement in calculating the areas of blocks mapped by that Party, but the subject is receiving the attention of the Collector.

2. The following statement shows the area of each district, and the area brought under the Forest Act:—

## Abstract B.—District areas and forest reserves.

| District. | Total district area excluding feudatory and tributary states. | Area excluding zemindari and whole inam villages. | Occupied area. | Particulars of remaining area (column 3—column 4). | | | Reserved forests and reserved lands. | | | Percentage of column 10 to column 3. | Percentage of column 10 to column 7. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unoccupied culturable, uncultivable and forest areas. | Area for which returns are not available. | Total of columns 5 and 6. | Reserved forests under Act V of 1882. | Reserved lands. | Total of reserves, columns 8 and 9. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | | |
| Ganjám | 8,369 | (c) 4,437 | (d) 598 | (e) 1,155 | (f) 2,684 | 3,839 | 133 | 426 | 559 | 12·6 | 14·56 |
| Vizagapatam | 17,242 | 1,377 | 256 | 580 | 541 | 1,121 | 87 | 328 | 415 | 30·14 | 37·02 |
| Gódávari | 7,857 | 3,888 | 1,554 | 1,852 | 482 | 2,334 | 634 | 341 | 975 | 25·07 | 41·77 |
| Kistna | 8,397 | 5,621 | 3,168 | 2,369 | 84 | 2,453 | 641 | 571 | 1,212 | 21·56 | 49·40 |
| Kurnool | 7,514 | * 6,799 | 2,030 | 4,769 | .. | 4,769 | 1,748 | 496 | 2,244 | 33·00 | 47·05 |
| Bellary | (a) 5,713 | * 4,621 | 2,646 | 1,975 | .. | 1,975 | 452 | 185 | 637 | 13·78 | 32·25 |
| Anantapur | (a) 5,461 | 4,569 | 2,166 | 2,284 | 119 | 2,403 | 440 | 77 | 517 | 11·33 | 21·55 |
| Total .. | 60,553 | 31,812 | 12,418 | 14,984 | 3,910 | 18,894 | 4,135 | 2,424 | 6,559 | 20·95 | 34·72 |
| *Central Circle.* | | | | | | | | | | | |
| Cuddapah | 8,723 | * 7,567 | 2,148 | 5,419 | . | 5,419 | 1,535 | 822 | 2,357 | 31·14 | 43·49 |
| Nellore | 8,765 | 4,064 | 1,732 | 2,327 | 5 | 2,332 | 436 | 225 | 661 | 16·26 | 28·34 |
| Chingleput | (a) 3,092 | 2,047 | 1,014 | 1,024 | 9 | 1,033 | 200 | 38 | 238 | 11·62 | 23·04 |
| North Arcot | (a) 7,365 | 3,905 | 1,382 | 2,517 | 6 | 2,523 | 995 | 136 | 1,131 | 28·96 | 44·82 |
| South Arcot | 5,216 | 4,969 | 2,476 | 2,420 | 73 | 2,493 | 505 | 274 | 779 | 15·67 | 31·24 |
| Salem | 7,529 | 5,390 | 2,132 | 3,258 | .. | 3,258 | 1,224 | 240 | 1,464 | 27·16 | 44·93 |
| Trichinopoly | 3,631 | 2,686 | 1,668 | 1,005 | 13 | 1,018 | 192 | 41 | 233 | 8·67 | 22·88 |
| Tanjore | 3,709 | * 2,471 | 1,778 | 693 | .. | 693 | 19 | .. | 19 | 0·76 | 2·74 |
| Total .. | 48,030 | 33,099 | 15,330 | 18,663 | 106 | 18,769 | 5,106 | 1,776 | 6,882 | 20·79 | 36·66 |
| *Southern Circle.* | | | | | | | | | | | |
| South Canara | 3,902 | 3,883 | 673 | 3,210 | .. | 3,210 | 114 | 1,020 | 1,134 | 29·20 | 35·32 |
| Malabar | 5,593 | * 5,565 | 1,636 | 3,929 | .. | 3,929 | 196 | 404 | 600 | 10·78 | 15·27 |
| Nilgiris | 957 | 957 | 314 | 643 | .. | 643 | 357 | 95 | 452 | 47·23 | 70·29 |
| Coimbatore | 7,860 | * 7,406 | 3,821 | 3,585 | .. | 3,585 | 1,510 | 864 | 2,374 | 32·05 | 66·22 |
| Madura | 8,813 | * 3,207 | 1,646 | 1,561 | .. | 1,561 | 559 | 90 | 649 | 20·23 | 41·57 |
| Tinnevelly | (b) 5,389 | 2,566 | 2,299 | 1,259 | 8 | 1,267 | 411 | 17 | 428 | 12·00 | 33·78 |
| Total .. | 32,514 | 24,584 | 10,389 | 14,187 | 8 | 14,195 | 3,147 | 2,490 | 5,637 | 22·92 | 39·71 |
| Grand Total .. | 141,097 | 88,995 | 38,137 | 47,834 | 4,024 | 51,858 | 12,388 | 6,690 | 19,078 | 21·43 | 36·80 |

* Area from village papers is entered, as the net area by regular survey is less than the corresponding area in village papers.

The variations as compared with the figures shown in the report for 1894–95 are due to:—

(a) The transfer of certain villages from Bellary and North Arcot to Anantapur and Chingleput, respectively.

(b) The omission of certain hills and inam villages in Collector's statement for 1893–94.

(c) The erroneous inclusion of the area of the minor inams in Government villages in the previous year's figures.

(d) The inclusion of particulars for agency tracts in Gódávari for which approximate information has been furnished and to the extension of dry cultivation in Anantapur.

(e) Do. do. do do, and of unsurveyed areas in certain other districts. (f) Clauses (c) and (e) above.

The percentage of area reserved has risen from 31·8 to 36·8 during the year.

3. The subjoined statement exhibits the area finally constituted reserved forests in each district :—

ABSTRACT C.

| Districts. | Prior to 1894–95. | During 1894–95. | During 1895–96. | Total. |
|---|---|---|---|---|
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Ganjám | 133 | 3 | (*a*) — 3 | 133 |
| Vizagapatam | 29 | 29 | 29 | 87 |
| Gódávari | 498 | 23 | 113 | 634 |
| Kistna | 627 | 19<br>(*b*) — 3 | 10<br>(*b*) — 12 | 641 |
| Kurnool | 1,734 | 3 | 11 | 1,748 |
| Bellary | 285 | 75 | 89<br>(*b*) + 3 | 452 |
| Anantapur | 302 | 78 | 60 | 440 |
| Total .. | 3,608 | 227 | 300 | 4,135 |
| *Central Circle.* | | | | |
| Cuddapah | 1,204 | 37<br>(*b*) + 9 | 285 | 1,535 |
| Nellore | 343 | 74 | 19 | 436 |
| Chingleput | 169 | 28 | 3 | 200 |
| North Arcot | 937 | 30<br>(*a*) — 1 | 32<br>(*a*) — 3 | 995 |
| South Arcot | 407 | 57 | 86<br>(*b*) — 45 | 505 |
| Salem | 1,027 | 67<br>(*b*) — 5 | 97<br>(*b*) + 39<br>(*a*) — 1 | 1,224 |
| Trichinopoly | 190 | 2 | .. | 192 |
| Tanjore | 19 | .. | .. | 19 |
| Total .. | 4,296 | 298 | 512 | 5,106 |
| *Southern Circle.* | | | | |
| South Canara | 106 | 8 | .. | 114 |
| North Malabar | 151 | .. | 7<br>(*a*) — 1 | 157 |
| South Malabar | 39 | .. | .. | 39 |
| Nilgiris .. | 248 | 107 | 2 | 357 |
| North Coimbatore | 838 | 21 | .. | 859 |
| South Coimbatore | 566 | .. | (*b*) 85 | 651 |
| Madura | 524 | 18 | 17 | 559 |
| Tinnevelly | 410 | (*c*) + 1 | .. | 411 |
| Total .. | 2,882 | 155 | 110 | 3,147 |
| Grand Total .. | 10,786 | 680 | 922 | 12,388 |

(*a*) Disafforested. (*b*) Rectification of area. (*c*) By rounding off fractions.

The outturn in *Gódávari* and *Nellore* was actually much larger than that shown above. One block of about 168 square miles in the former and two blocks of 96 square miles in the latter district were notified under section 16 of the Act during the year under report but their reservation takes effect only from dates falling within the current year. The same remark applies in the case of the marginally-noted districts to the extent entered against each. In *North Coimbatore* the final notification of the long-standing Guttialattur block of about 280 square miles, which was received in the Board's office early in June 1895, was not submitted to Government until after the close of the year. It has since been declared a reserved forest.

| | SQ. MLS. | | SQ. MLS. |
|---|---|---|---|
| Kistna .. | .. 11 | South Canara | .. 11 |
| Chingleput | .. 3 | South Coimbatore | .. 1 |
| North Arcot | .. 10 | Maddura .. | .. 8 |
| South Arcot | .. 8 | | |

In pursuance of the latest Forest policy referred to above, the question of the retention, or otherwise, of the small blocks already constituted reserves under section 16 of the Act received very careful consideration. Proposals from almost all the districts for disafforesting small reserves, for the retention of which no special reasons existed, have been approved by Government. Except in the case of three square miles in *Ganjám*, three in *North Arcot* and one in *Salem*, the sanction of the Government of India has not been received.

4. The following statement shows the latest estimate of the area to be eventually declared reserved forests. It cannot pretend to absolute accuracy. Proposals under settlement are liable to alteration at settlement, and the Board or Government may further modify or reject them. The areas of further selections are similarly open to revision :—

| Districts. | Sanctioned estimate of areas for reservation in the districts. | Area brought under the Forest Act. | Additional estimated area selected or to be selected. | Total estimate proposed to be reserved. | Percentage of column 5 to the area of Government lands in the districts. | Percentage of column 5 to the total unoccupied culturable and unculturable lands in the districts. |
|---|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | | |
| Ganjám .. .. | 656<br>(a) — 7 | 559 | 90 | 649 | 14·62 | 16·90 |
| Vizagapatam .. .. | 415 | 415 | .. | 415 | 30·14 | 37·02 |
| Gódávari .. .. .. | 997 | 975 | 22 | 997 | 25 64 | 42·71 |
| Kistna .. .. .. | (b) .. | 1,212<br>(a) — 4 | .. | 1,208 | 21·49 | 45·16 |
| Kurnool .. .. | 2,677<br>(a) — 3 | 2,244 | 210 | 2,454 | 36 09 | 51·45 |
| Bellary .. .. .. | 462 | 637<br>(a) — 6 | .. | 631 | 13·65 | 31·94 |
| Anantapur .. .. | 535<br>(a) — 3 | 518<br>(a) — 3 | 17 | 532 | 11·64 | 22·13 |
| Cuddapah .. .. | 2,640<br>(a) — 20<br>(c) — 200 | 2,357 | 61 | 2,418 | 31·98 | 44·65 |
| Nellore .. .. | 1,132<br>(a) — 14 | 661<br>(a) — 14 | 374 | 1,021 | 25·13 | 43·78 |
| Chingleput .. .. .. | 231 | 238<br>(a) — 7 | .. | 231 | 11·77 | 23·33 |
| North Arcot .. .. | (b) .. | 1,131<br>(d) — 21 | .. | 1,100 | 28·16 | 43·59 |
| South Arcot .. .. | 835 | (c) 779<br>(a) — 50 | .. | 729 | 14·67 | 25·23 |
| Salem .. .. .. | 1,096 | 1,464 | 166 | 1,630 | 30·24 | 50·03 |
| Trichinopoly .. .. | (b) .. | 233<br>(a) — 3 | .. | 230 | 8·57 | 22·70 |
| Tanjore .. .. .. | 23 | 19<br>(a) — 1 | 5 | 23 | 0·93 | 11·97 |
| South Canara .. .. | 1,011 | 1,134 | .. | 1,134 | 29·20 | 35·32 |
| Malabar .. .. .. | (f) 273 | 600 | .. | 600 | 10·78 | 15·27 |
| Nilgiris .. .. .. | (g) 411 | (g) 377 | 34 | 411 | 42·94 | 63·92 |
| Coimbatore .. .. .. | (f) 1,812 | (h) 2,374<br>(a) — 33 | 28 | 2,369 | 31·98 | 66·08 |
| Madura .. .. .. | (b) .. | 649<br>(a) — 15 | .. | 634 | 19·76 | 40·61 |
| Tinnevelly .. .. | 440<br>(a) 3 | 428<br>(a) — 3 | 12 | 437 | 12·25 | 34·49 |

(a) Abandoned.
(b) No definite schemes were formulated and approved for these districts.
(c) Selections proposed to be abandoned.
(d) Area that will probably have to be excluded for provision for communal privileges.
(e) Decrease consequent upon re-survey.
(f) Final schemes were submitted only for the Northern Division of the district.
(g) Excludes the Mudumalai, &c., leased forests of about 75 square miles.
(h) Increase, result of survey by the Survey of India.

## (ii) *Forest Settlements.*

5. The progress of forest settlement is shown in the following table :—

ABSTRACT D.

| Circle. | Area of reserved lands—*vide* Abstract A above. | | | | | Area brought under Chapter II of the Madras Forest Act. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | On 1st July 1895. | Added during 1895–96. | Total. | Excluded during the year mainly by reason of constitution as reserved forests. | Balance at the end of the year. | Area notified under section 4, not constituted reserved forests on 1st July 1895. | Added during 1895–96. | Total. | Constituted reserved forest during 1895–96, or otherwise disposed of. | Balance notified under section 4 but not constituted reserved forest. |
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Northern .. | 2,596 | 297 | 2,893 | 476 | 2,424 | 1,931 | 39<br>(a) + 10 | 1,980 | 311<br>(b) 35<br>(c) 33 | 1,601 |
| Central .. | 2,184 | 220 | 2,404 | 628 | 1,776 | 1,753 | 274<br>(a) + 7 | 2,040 | 521<br>(b) 20<br>(c) 48<br>(a) 21 | 1,430 |
| Southern .. | 2,544 | 33 | 2,577 | 87 | 2,490 | 1,623 | 129 | 1,752 | 26<br>(a) 8<br>(b) 16 | 1,702 |
| Total .. | 7,324 | 550 | 7,874 | 1,184 | 6,690 | 5,313 | 459 | 5,772 | 1,039 | 4,733 |

(a) Rectification of area. (b) Initial notification cancelled. (c) Excluded at settlement.

6. The statement in Appendix A shows, districtwar, the total area brought under settlement up to the end of the year, the area constituted reserved forests and the particulars of the balance under settlement on 30th June 1896. At the beginning of the year there were 736 blocks, covering an area of 5,313 square miles previously notified under section 4, remaining to be finally constituted reserved forests. Seventy-nine blocks of an aggregate area of 442 square miles were notified under section 4 during the year against 203 blocks of 675 square miles in 1894–95. The following table shows the totals for the Presidency as compared with those of the previous year:—

| — | 1894–95. | | 1895–96. | |
|---|---|---|---|---|
| | Number of blocks. | Area in square miles. | Number of blocks. | Area in square miles. |
| (1) Areas notified as proposed reserves under section 4 and remaining to be constituted reserved forests at the beginning of the year .. .. .. .. .. .. .. .. | 758 | 5,318 | 736 | 5,313 |
| (2) Notified under section 4 during the year .. .. .. | 203 | 675 | 79 | 442 |
| | | | (a) 7 | (a) 17 |
| Total .. | 961 | 5,993 | 822 | 5,772 |
| (3) Deduct area finally notified as reserved forest under section 16, excluded at settlement or cancelled, &c. .. . .. | 225 | 680 | 185 | 858 |
| | | | | (b) 71 |
| | | | (b) 96 | (c) 81 |
| | | | | (a) 29 |
| (4) Area which remained to be finally notified at the end of the year. | 736 | 5,313 | 541 | 4,733 |

(a) Rectification of area. (b) Initial notification cancelled. (c) Excluded at settlement.

The decrease was an inevitable consequence of the change in the Forest policy which was given effect to during the period under report. Several blocks proposed for reservation were not accepted by the Board as falling below the prescribed limit, and the notifications for several others had to be returned to Collectors for amendment, with a view to leave a fair margin of lands for the exercise of communal privileges and for extension of cultivation. As a matter of fact, the initial notifications of 96 blocks of an aggregate area of about 71 square miles were cancelled during the year, while those of many more blocks awaited publication in the Gazette.

The particulars of balance of area under settlement shown under item (4) above are as follow:—

| — | 1894–95. | | 1895–96. | |
|---|---|---|---|---|
| | Number of blocks. | Area in square miles. | Number of blocks. | Area in square miles. |
| (a) Notified under section 16 during the year but with effect from dates in the following year .. .. .. .. .. | 38 | 361 | 21 | 311 |
| (b) With Board or Government awaiting publication of notification under section 16 .. .. .. .. .. .. | 145 | 1,009 | 117 | 855 |
| (c) Returned by Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer. | 51 | 698 | 70 | 820 |
| Total settled and reported on .. | 234 | 2,068 | 208 | 1,986 |
| (d) Settled but not reported on .. .. .. .. .. | 184 | 1,130 | 97 | 732 |
| (e) Settlement proceeding .. .. .. .. .. .. | 318 | 2,115 | 236 | 2,015 |
| Total of (d) and (e) .. | 502 | 3,245 | 333 | 2,747 |
| Total of (a), (b), (c), (d) and (e) .. | 736 | 5,313 | 541 | 4,733 |

Of the 97 blocks comprising 732 square miles shown as settled but not reported on—

23 were awaiting preparation of maps;
22 do. disposal of appeals;
4 do. expiry of time prescribed for appeals;
23 do. preparation or submission of final report by Forest Settlement-officers or Collectors; and
25 were pending owing to other causes.

7. Two hundred and thirty-six blocks of an aggregate area of 2,015 square miles were pending with the Forest Settlement-officers in various stages of settlement.

The settlement work in *Ganjám* has now been entrusted to a Special Forest Settlement-officer since August 1895. No blocks were notified during the year but the delay is attributed to the preparation of fresh maps in the case of several reserves owing to the vagueness of the initial notifications. Final notifications for eight blocks covering an area of 37 square miles were, however, submitted towards the close of the year and better rate of progress is anticipated in the current year. In *Vizagapatam* where work was entrusted to the Divisional officers the progress was satisfactory; six blocks of 29 square miles have been notified under section 16 and two blocks of 49 square miles have been reported on and are pending with Government. Three other blocks, the settlement of which has been completed, are awaiting the result of appeals in the District Court. In *Gódávari*, many of the old blocks were notified, and the submission of final reports for certain others is delayed pending disposal of appeals or expiry of time prescribed for appeals. The settlement work in *Kistna* was delayed pending the orders of Government on the question of the retention, or otherwise, of small blocks in the district, and on account of a large number of agraharam claims which are comparatively difficult to settle. Final notifications for thirteen blocks covering an area of 16 square miles were, however, submitted to the Board after the close of the year. The final notification of the North Dhone reserve in *Kurnool* was submitted to the Board together with the settlement reports of two other blocks only after the close of the year under report. The only two old blocks in *Bellary* are pending with the Board. The settlement records of the two blocks of more than nine years' pendency in *Cuddapah* were returned to the Collector for revision. The final notifications of the two oldest blocks (Srîharikóta) in *Nellore*, which awaited the district court's decision in a compensation case at the close of the preceding year, were received in the Board's office in April last and are under scrutiny. A large number of blocks settled and reported on in *North Arcot* was returned to the Collector with suggestions for the alteration of boundaries, so as to make due provision for extension of cultivation and exercise of communal privileges. In *South Arcot* eleven blocks, covering an area of 158 square miles, were pending with the Board at the close of the year. The final reports of 25 others were not submitted to the Board, as the proposals regarding their reservation have been cancelled. The progress in *Salem* was satisfactory. All the old blocks on the slopes of the Peria and Chinna Kalrayan hills, which were pending for a long time awaiting the results of appeals in the High Court, were finally gazetted as reserved forests during the year. The Board has since noticed that the limit to reservation sanctioned in Government Order, No. 268, Revenue, dated 10th April 1890, for the district has been exceeded, and the settlement of the remaining blocks depends upon the results of a joint report called for from the Collector and the Conservator. The final notifications of two of the three long-pending blocks in *North Malabar*, were delayed pending demarcation of the hills adjudged by the High Court to one Bavothi Hajee and that of the other has been promised to be submitted shortly. The submission of final reports for the seventeen old blocks in *South Malabar* is still pending disposal of appeals in the High Court. The final notification of one of the three old blocks in *North Coimbatore* has since been published; the remaining two are pending the correct demarcation of the blocks, the original demarcation having been found incorrect. In *South Canara* little progress was made during the year. An improvement may now be hoped for as the district has been brought under the charge of a Special Forest Settlement-officer.

8. A statement showing the causes of the pendency of the blocks not yet constituted reserved forests is given in Appendix B. There was a large decrease in the area and in the number of blocks pending at the close of the year; this is ascribable to the abandonment of a large number, to the smaller number notified under section 4 and to the increase in the extent of the reserves finally gazetted. The following statement compares the results of the present with those of the previous year :—

| Date. | Finally notified during the year ending with | | Settled and reported on. | | Under settlement. | | Total. | |
|---|---|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| 30th June 1895 .. | 225 | 680 | 234 | 2,068 | 502 | 3,245 | 736 | 5,313 |
| 30th June 1896 .. | 185 | 858 | 208 | 1,986 | 333 | 2,748 | 541 | 4,733 |

9. *Outturn of work by the Special Forest Settlement-officers.*—The work done by the Special Forest Settlement-officers is shown in the subjoined abstract :—

ABSTRACT E.—Outturn of work by Special Forest Settlement-officers during 1895–96.

| Name of Special Forest Settlement-officers. | Districts. | Issue of proclamation after notification under section 4. | | Settlement of claims. | | Report after settlement submitted. | | Final notification proclaimed. | | Cost. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Number of blocks. | Area. | Number of blocks. | Area. | Number of blocks. | Area. | Number of blocks. | Area. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. | RS. |
| Messrs. R. H. L. Lushington and H. S. Mullins. | Ganjám .. .. | 2 | 8 | 29 | 426 | 9 | 42 | .. | .. | 8,286 from November to June. |
| | Gódávari .. .. | .. | .. | .. | .. | 2 | 168 | .. | .. | .. |
| | Kistna .. .. | .. | .. | 8 | (a) | 3 | 4 | 3 | (a) | .. |
| | Kurnool .. .. | .. | .. | 4 | .. | .. | .. | .. | .. | .. |
| | Bellary .. .. | .. | .. | 2 | .. | 1 | 2 | .. | .. | .. |
| | Total .. | 2 | 8 | 43 | 426 | 15 | 216 | 3 | .. | 8,286 |
| Mr. E. A. Smith .. .. | Gódávari .. .. | .. | .. | 1 | 8 | 3 | 38 | .. | .. | 816 |
| | Kistna .. .. | 7 | 24 | 10 | (b) 60 | 14 | 23 | 2 | (a) | 1,527 |
| | Kurnool .. .. | 4 | 73 | 6 | (b) 128 | 7 | 83 | .. | .. | 1,110 |
| | Bellary .. .. | .. | .. | | .. | .. | .. | 10 | (a) | Not reported. |
| | Anantapur .. .. | 6 | (a) | 6 | (a) | 5 | 22 | 2 | (a) | Not reported. |
| | Nellore .. .. | 11 | 46 | 10 | 25 | 13 | 70 | 16 | 23 | 5,013 |
| | Total .. | 28 | 143 | 33 | 221 | 42 | 236 | 30 | 23 | 8,466 |
| Mr. W. C. McMurray .. | Bellary .. .. | 1 | 5 | .. | .. | 1 | 16 | 4 | 8 | 1,051 |
| | Anantapur .. .. | 2 | 10 | 1 | 1 | .. | .. | 7 | 56 | 1,051 |
| | Cuddapah .. .. | 5 | 203 | 13 | 114 | 12 | 87 | 10 | 48 | 1,945 |
| | North Arcot .. .. | 3 | 19 | 12 | 45 | 17 | 61 | 7 | 32 | 1,945 |
| | South Arcot .. .. | .. | .. | .. | .. | 12 | 69 | 21 | 32 | 1,945 |
| | Salem .. .. | 15 | 85 | 13 | 48 | 13 | 48 | 19 | 74 | 1,945 |
| | Total .. | 26 | 322 | 39 | 208 | 55 | 281 | 68 | 250 | 9,882 |
| M.R.Ry. C. Raju Sastri .. | South Arcot .. .. | 5 | 10 | 4 | 8 | .. | .. | 4 | 30 | 10,322 |
| | Trichinopoly .. | .. | .. | 1 | 2 | 1 | 2 | .. | .. | |
| | Madura .. .. | .. | .. | 14 | 30 | 16 | 24 | 21 | 22 | |
| | Tinnevelly .. .. | 10 | 11 | 19 | (a) | 15 | 8 | .. | .. | |
| | Coimbatore .. .. | 1 | 3 | .. | .. | .. | .. | .. | .. | |
| | Total .. | 16 | 24 | 38 | 40 | 32 | 34 | 25 | 52 | 10,322 |
| | Grand Total .. | 72 | 497 | 153 | 895 | 144 | 767 | 126 | 325 | 36,956 |
| | In 1894–95 .. .. | 124 | 383 | 213 | 891 | 219 | 1,136 | 84 | 566 | 45,177 |

(a) Not reported.

(b) Includes the area of the blocks, the settlement of claims of which was made by Mr. Lushington.

During the year under report a re-adjustment of forest settlement divisions was made. From the commencement of the second quarter of the year, *Ganjám* was placed under the charge of Mr. Lushington ; *Bellary* and *Anantapur* were transferred to Mr. McMurray, and to Mr. Smith's division were added *Gódávari*, *Kistna* and *Kurnool*. The details of the outturn, as compared with those of the previous year, show a falling off due to the absence of three of the four settlement officers who were either on leave or transfer during the last quarter of the year. Messrs. McMurray and Raju Sastri, two of the experienced officers, were retransferred on their own motion to duty in the Land Revenue line. Mr. Mullins, a new officer, who was being trained for the work, took temporary charge of Mr. Lushington's district during his absence. Mr. McMurray and Mr. Smith both worked well. Mr. Raju Sastri had charge of the plain districts of the southern division ; his work was to a certain extent affected by the temporary suspension of the settlement of small blocks. Twenty-five of these, of which the settlement was almost completed and which would otherwise have been finally reported upon, were abandoned during the year. Mr. Lushington was employed upon settlement in Ganjám for only eight months of the year.

10. *Outturn of forest settlement work by Divisional-officers.*—The following statement shows the forest settlement work disposed of by Revenue Divisional-officers. Except in *Vizagapatam* and *Nilgiris*, no real progress was made during the year; in Chingleput the Deputy Collector, who has since retired, appears to have totally neglected the work. In May last sanction of the Secretary of State was received to the entertainment of a fifth Special Forest Settlement officer and the work in *Malabar* and *South Canara* has since been entrusted to him; and all the other districts, except *Nilgiris*, have been allotted to the charge of one or other of the remaining officers. A complete re-adjustment of the districts has been made, and the Board now trusts that the work will be pushed on with vigour so as to bring the settlement of all old blocks to a speedy conclusion:—

ABSTRACT F.—Forest settlement work done by Revenue Divisional-officers.

| District. | Name of officers. | Blocks pending with Forest Settlement-officers at the beginning of 1895-96. | | Added during 1895-96. | | Total. | | Disposed of during 1895-96. | | Blocks pending with the Forest Settlement-officers at the end of 1895-96. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. |
| Ganjám .. | Principal Assistant Collector .. .. .. | 1 | | .. | .. | 1 | 2 | .. | .. | 1 | 2 |
| | Senior Assistant Collector. | 26 | 41 | .. | .. | 26 | 41 | (b) 22<br>3 | 38<br>3 | 1 | .. |
| | General Deputy do. .. | 25 | 397 | 1<br>(a)2 | 6 | 28 | 403 | (c) 21<br>(b) 7 | 20<br>383 | .. | .. |
| | Total .. | 52 | 440 | 3 | 6 | 55 | 446 | 53 | 444 | 2 | 2 |
| Vizagapatam .. | Principal Assistant Collector .. .. .. .. | 2 | 41 | (a) 1 | .. | 3 | 41 | .. | .. | 3 | 41 |
| | Head Assistant Collector .. | 11 | 202 | (a)—1 | .. | 10 | 202 | 6 | 29 | 4 | 173 |
| | Total .. | 13 | 243 | .. | .. | 13 | 243 | 6 | 29 | 7 | 214 |
| Bellary .. .. | Deputy Collector, Adóni .. | 5 | 23 | .. | .. | 5 | 23 | 3 | 12 | 2 | 11 |
| Chingleput .. | Mr. Tillanayagam Pillai .. | 11 | 3 | 9 | 3 | 20 | 6 | (c) 2 | .. | 18 | 6 |
| Nilgiris .. .. | Head Assistant Collector .. | 33 | 1 | 1 | .. | 34 | 1 | 33 | 1 | 1 | .. |
| Coimbatore .. | Head Assistant do. .. | 3 | 4 | .. | .. | 3 | 4 | 3 | 4 | .. | .. |
| Malabar .. .. | Sub-Collector .. .. | 2 | 42 | .. | .. | 2 | 42 | .. | .. | 2 | 42 |
| | Head Assistant Collector .. | 4 | .. | .. | .. | 4 | .. | (c) 1 | .. | 3 | .. |
| | Special Assistant do. .. | 12 | (a) 169 | (a) 2 | .. | 14 | 169 | .. | .. | 14 | 169 |
| | Deputy Collector, Wynaad. | 13 | 173 | 1<br>(a)3 | .. | 17 | 173 | (c)3<br>6 | 4<br>7 | 8 | 162 |
| | Total .. | 31 | 384 | 6 | .. | 37 | 384 | 10 | 11 | 27 | 373 |
| South Canara .. | Head Assistant Collector .. | 36 | 185 | 8 | 90 | 44 | 275 | 3 | 2 | 41 | 273 |
| | General Deputy do. .. | 6 | 124 | 1 | 25 | 7 | 149 | (c) 3 | 1 | 4 | 148 |
| | Total .. | 42 | 309 | 9 | 115 | 51 | 424 | 6 | 3 | 45 | 421 |

(a) By rectification. (b) Transferred to Special Forest Settlement-officer. (c) Unreserved.

11. *Selections for further reservation.*—Final schemes for further reservation in all districts except *Kistna* have been submitted to Government and approved. The Kistna proposals have been the subject of correspondence between the Board and the Collector, but a final scheme has not yet been formulated. The Collector has now been asked to expedite his final report. In most districts the extent of the areas is liable to modification in view of the recent change in the forest policy, but the difference cannot be very material. The proposed selections in the Agency tract "Pondokhol" in *Ganjám* will have to be taken in hand only after the settlement of the other areas in the district is completed, as the District Forest-officer cannot spare time for the work. The area to be reserved in *Vizagapatam* has been determined for the ordinary tracts, and the selections

of a few blocks in the Agency await inspection by the Conservator. Selection in *Gódávari* is complete; and what remains to be done is the preparation of notifications under section 4 for the three blocks of 22 square miles ordered to be retained in the Yellavaram Agency. In *Kistna* the work of selection is complete in all the taluks except Bapatla. Good progress was made in *Kurnool* and about twenty blocks remain to be selected. It is reported that there is still ample room for extending the selection, considering the large balance of the unoccupied and unreserved lands in the district. The suit regarding the ownership of some hills in the Hospet taluk of the *Bellary* district was only recently decided, and it is hoped that selection in this taluk, which was awaiting the result of the above suit, will soon be finished. The Conservator's opinion regarding further reservation in the other taluks of the district, which is said to have been received by the Collector, is awaited. It is noted that in *Cuddapah* about 172 square miles of new selections were made during the year. In *Nellore* selections in the taluks of Rapur, Udayagiri, Kanigiri and Atmakúr are in progress, the total will aggregate about 400 square miles. As regards *Chingleput* there are some 15 square miles to be brought under settlement and the area that will eventually be reserved will slightly fall short of the estimate approved in 1893.* Selection in *Salem*, which was making fairly good progress during the year, has since been temporarily suspended pending the joint report of the Collector and the Conservator already alluded to, on the advisability of taking up further areas for reservation. In *Malabar* nothing can now be definitely stated as regards the maximum area that will be reserved in the district until the question of the jenm right is settled and the survey of the district completed. In all the other districts selection is practically complete.

* G.O., No. 472, Revenue, dated 2nd June 1893.

12. *Reserved lands not brought under settlement.*—The area of reserved lands not yet brought under settlement is shown in Appendix C. Compared with the previous year, there is an increase in the *Northern Circle* and a decrease in the others. The increase in the *Northern Circle* is due to large areas having been notified by the Collectors of *Kistna* and *Bellary* under section 26 of the Forest Act. As observed in the last year's report, the area not yet brought under settlement is still large in the districts of *Vizagapatam*, *Kistna*, *Kurnool*, *Bellary*, *Cuddapah*, *Salem*, *South Canara* and *Nilgiris*. In *Vizagapatam* the question of reserving the tracts was finally settled and notifications for almost all the blocks were submitted after the close of the year. The delay in *Kistna* is ascribed to the large amount of preliminary demarcation undertaken during the hot weather, postponing the preparation of maps and notifications to the cold season. The slow progress in preliminary demarcation delayed the issue of notifications in *Kurnool*. In *Bellary* the reserved lands consist of the leased forests and of the areas newly brought under section 26 of the Forest Act, and the notification for the latter is pending the demarcation of the selected blocks. In *Cuddapah* the progress made during the year under report is satisfactory. In *Salem* the notifications were pending preparation of maps, which cannot be done until the blocks are surveyed. The work has since been temporarily stopped for reasons already explained. The work in *South Canara* is delayed pending receipt from the Revenue Survey Department of the map of the forest portion of the Uppinangadi taluk. The reserved lands in *Nilgiris* consist of leased forests.

### (iii) *Demarcation.*

13. Form No. 46 contains information regarding demarcation and maintenance of boundaries. There has been no change in the system of demarcation reported last year which has been found to answer the requirements of administration. Besides 2,189 miles of permanent demarcation the re-clearance of a considerable length of the old lines has also been effected during the year.

14. The following statement shows the length of boundary lines preliminarily and permanently demarcated during the year as compared with the figures of the preceding year :—

## Abstract G.—Demarcation work done during 1895-96.

| Districts. | Preliminary. | | | | | | Permanent. | | | | | | Re-clearing old lines, &c. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | During 1894-95. | | | During 1895-96. | | | During 1894-95. | | | During 1895-96. | | | During 1894-95. | | During 1895-96. | |
| | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Miles. | Cost. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | Rs. | | Rs. |
| Ganjám | 13 | 60 | 4 9 10 | 35 | 100 | 2 13 9 | 56 | 452 | 8 1 1 | 27 | 756 | 28 0 0 | 115 | 325 | 83 | 234 |
| Vizagapatam | 9 | 30 | 3 5 4 | 114 | 141 | 1 3 9 | 22 | 464 | 21 1 5 | 38 | 639 | 16 13 1 | .. | (d) 47 | 99 | 100 |
| Gódávarí | 46 | 179 | 3 14 3 | .. | .. | .. | 95 | 550 | 5 12 7 | 135 | 712 | 5 4 4 | 106 | 323 | 174 | 579 |
| Kistna | 88 | 53 | 0 9 8 | 289 | 2,132 | 7 6 0 | 32 | 292 | 9 2 0 | 57 | 927 | 16 4 3 | .. | 1,011 / (d) 55 | 23 | 1,720 / (d) 51 |
| Kurnool | 198 | 491 | 2 7 8 | 153 | 416 | 2 11 6 | 61 | 578 | 9 7 7 | 50 | 410 | 8 3 2 | 24 | 113 | 8 | 27 |
| Bellary | 205 | (b) 260 | 1 4 4 | 48 | 60 | 1 4 0 | 230 | (b)1,312 | 5 11 3 | 449 | 2,473 | 5 8 1 | 15 | 50 | 200 | (e) 486 |
| Anantapur | (e) 337 | 3 | .. | 25 | .. | .. | 3 | (g) 466 | 155 5 4 | 99 | (g) 533 | 5 6 1 | .. | (d) 86 | 10 | (d) 89 |
| Total | 896 | 1,076 | 1 3 2 | 664 | 2,849 | 4 4 8 | 499 | 4,114 | 8 3 10 | 855 | 6,450 | 7 8 8 | 270 | 2,010 | 597 | 3,286 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Cuddapah | 188 | 463 | 2 7 5 | 115 | 246 | 2 2 3 | 311 | 3,194 | 10 4 3 | 221 | 1,721 | 7 12 7 | 17 | 190 / (e) 630 | 8 | 3 / (e) 468 |
| Nellore | 74 | 270 | 3 10 4 | .. | .. | .. | 56 | 427 | 7 10 0 | 6 | 27 / (a) 28 | 9 2 8 | 19 | 51 / (d) 81 | 15 | 67 / (d) 192 / (h) 101 |
| Chingleput | 79 | 384 | 4 13 9 | 24 | 103 | 4 4 8 | 78 | 906 | 11 9 10 | 66 | 772 | 11 11 2 | .. | (d) 694 / (e) 524 | 1,078 | 97+(d) 1,364 / (e) 478 |
| North Arcot | .. | .. | .. | .. | .. | .. | 209 | 1,358 | 6 8 0 | 214 | 1,808 | 8 7 2 | 17 | 89 | 85 / (d)2,095 | 596 |
| South Arcot | 227 | 446 | 1 15 5 | 76 | 123 | 1 9 11 | 263 | 3,556 | 13 8 4 | 213 | 3,682 | 17 4 7 | 182 | 622 / (f)1,163 | 28 | (e) 999 / 539 |
| Salem | 447 | 908 | 2 0 6 | 105 | 348 | 3 5 0 | 470 | 2,216 | 4 11 5 | 181 | 894 | 4 15 0 | 676 | 612 | 591 | 635 |
| Trichinopoly | 512 | 568 | 1 1 9 | 223 | 277 | 1 3 10 | 150 | 683 | 4 8 10 | 216 | 1,123 | 5 3 2 | .. | (e) 313 | .. | (e) 290 |
| Tanjore | .. | .. | .. | .. | .. | .. | 5 | 11 | 2 3 2 | .. | .. | .. | 80 | 7 | 12 | 8 |
| Total | 1,527 | 3,039 | 1 15 10 | 543 | 1,097 | 2 0 4 | 1,542 | 12,351 | 8 0 1 | 1,117 | 10,027 | 8 15 8 | 991 | 4,576 | 3,912 | 5,837 |
| *Southern Circle.* | | | | | | | | | | | | | | | | |
| South Canara | 304 | 215 | 0 11 3 | 195 | 101 | 0 8 3 | 11 | 206 | 18 11 8 | (i) 37 | 22 | 2 12 7 | .. | .. | .. | .. |
| North Malabar | 14 | 172 | 12 4 7 | .. | .. | .. | 62 | 1,130 | 18 3 7 | 7 | (j) 284 | 40 9 1 | .. | .. | 1 | 10 |
| South Malabar | .. | .. | .. | .. | .. | .. | 27 | 600 / (e)207 | 29 14 2 | 5 | 203 | 40 9 7 | 1 | .. | .. | .. |
| Nilgiris | 43 | 307 | 7 2 2 | 11 | 79 | 7 2 11 | 25 | 465 | 18 9 7 | 28 | 564 | 20 2 3 | 43 | 587 / (e) 551 / (f) 107 | 82 | 1,384 |
| North Coimbatore | 278 | 2,192 | 8 0 5 | 3 | 23 | 7 10 8 | 59 | 1,067 | 18 1 4 | 140 | 1,884 | 13 7 4 | 60 | 309 / (e) 505 | 31 | 134 / (d) 204 / (e) 488 |
| South Coimbatore | 21 | 370 | 17 9 11 | 5 | 21 | 4 3 2 | 16 | 189 | 11 13 0 | .. | .. | .. | .. | .. | 44 | 265 |
| Madura | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 75 | 2 | 20 |
| Tinnevelly | 143 | 104 | 0 11 7 | 58 | 33 | 0 9 0 | 80 | 233 | 7 12 3 | .. | 76 | .. | 59 | 326 / (e) 391 | 33 | 223 |
| Total | 798 | 3,360 | 4 3 4 | 272 | 257 | 0 15 1 | 230 | 4,097 | 17 13 0 | 217 | 3,033 | 13 15 8 | 171 | 2,851 | 193 | 2,728 |
| Grand Total | 3,221 | 7,475 | 2 5 2 | 1,479 | 4,203 | 2 13 6 | 2,271 | 20,562 | 9 0 10 | 2,189 | 19,510 | 8 14 7 | 1,432 | 9,837 | 4,702 | 11,851 |

(a) Still due to the contractor.
(b) Excludes pay of temporary watchers entertained at the end of the year.
(c) Demarcated by the Forest establishments.
(d) Cost of erecting or repairing cairns, posts and aloe fencing.
(e) Cost of temporary establishments.
(f) Cost of sign-boards.
(g) Cost of stone pillars, &c.
(h) Amount paid for work done in previous year, &c.
(i) Twenty-nine miles were cleared by ryots free of cost.
(j) Includes the cost of making and putting sign-boards.

15. *Preliminary demarcation.*—In *North Arcot* and *Madura* reservation has practically come to a close, while in *Gódávari*, *South Arcot*, *Malabar* and *Coimbatore* (South) selection of areas for reservation has been almost completed and there are only a few blocks for which notifications under section 4 have to be submitted. This accounts for the absence of preliminary demarcation in the first named two districts and for the absence of or short work in the other districts. The outturn in *Ganjám*, *Anantapur*, *Nellore*, *Chingleput*, *Coimbatore* (North) and *Tinnevelly* was commensurate with the selected areas on hand; in *Bellary* and *Nilgiris* the short work was due to the Range officers having been engaged on other works. In the latter district the unhealthiness of the season also tended to retard operations.

Preliminary demarcation in *Ganjám* was of a less elaborate nature than in previous years, and this accounts for the small average cost per mile in the district. The low rate in *Vizagapatam* was due to the employment of villagers of enclosures instead of special coolies; in *Bellary* there was little or no growth on the lines cleared. The average cost per mile in *Kistna* is considerably higher than that of the previous year, but in view of the fact that the tract through which the line was cleared was a dense jungle, the rate cannot be considered excessive. The work in *Anantapur* was, as usual, conducted by the regular establishment and no extra cost was therefore incurred. A few reserves were preliminarily demarcated in *Nellore*, but the work, on which nothing was spent, consisted of simply whitewashing the survey stones which formed the boundary of the selected areas. The low rate in *South Arcot* and *Tinnevelly* was, as reported last year, due to the adoption of revenue survey stones as forest boundaries and the slight decrease in the cost during the year under report was the result of facilities which existed in carrying out the work. The increase in *Salem* has not been explained, but that in *Trichinopoly* was due to thick growth of prickly-pear in certain portions. The large decrease in *South Coimbatore* is ascribed to the clearance of only a 4 feet line.

16. *Permanent demarcation.*—The outturn in *Ganjám* and *Malabar* was commensurate with the area of the reserves notified under section 16. In *Kurnool* it is explained that the progress must be rather slow as the boundaries of several reserves lie in unsurveyed lands and much delay is caused in verifying the position of the fields. There was short work in *Nellore* owing to the time of the Range officers having been taken up in connection with the grazing system newly introduced in that district. In *Chingleput* and *Tinnevelly* work was postponed; in the former district pending the result of the Conservator's inspection and report as to the advisability of the reservation proposed, and in the latter pending settlement of the proposed extensions to the existing reserves. In *South Canara* the Range officers were otherwise engaged during the year, which accounts for the short outturn; in *Nilgiris* work was retarded by the prevalence of sickness amongst the subordinates.

Compared with the cost of the preceding year there was a marked increase in *Ganjám* and *North* and *South Malabar*, and decrease in *Anantapur* and *South Canara*. The work in *Ganjám* consisted of the demarcation of the Maliah boundary and the increase in cost was due to the erection of cairns at short intervals apart. The increase in *North Malabar* includes also the cost of putting up sign-boards; in *South Malabar* it is ascribed to the difficulty of obtaining labour owing to the unhealthiness of the locality demarcated. The decrease in *Anantapur* has not been explained by the Collector; in *South Canara* it is due to the system introduced in certain localities of permitting ryots to clear the boundaries and remove free of charge the trees cut, which, if the work was done departmentally would be allowed to rot.

The total expenditure incurred during the year on all kinds of demarcation, inclusive of re-clearing old lines, amounted to Rs. 35,564 against Rs. 38,143 as per audited accounts. The difference between the two sets of figures occurs in the marginally-noted districts, and the Collectors of these districts have omitted to explain the variations. They have been requested to furnish in future reports the necessary explanation wherever any difference between the district and audited figures is found to exist.

| | |
|---|---|
| Vizagapatam. | Salem. |
| Kistna. | South Canara. |
| Kurnool. | North Malabar. |
| Cuddapah. | Nilgiris. |
| Nellore. | South Coimbatore. |
| South Arcot. | Tinnevelly. |

(IV) *Surveys.*

17. The operations of the Survey of India Party (No. 19) during the year under report were continued in *Salem* and *North Arcot* and extended also to *Kurnool*. In the *Salem district* the Yellagiri hills and an outlying reserve in the Tiruppattúr taluk, and the hills about Maharajagadai in the north of the Krishnagiri taluk were completely surveyed, and the survey of the forests in the Hosúr taluk was commenced. In *North Arcot* the survey of the Javadis and of the hills near and to the east of Vellore commenced last year was completed, as also the alterations in boundaries on sheets held back from previous years. The reserves to the north of the railway between Gudiyáttam and Katpádi, and scattered reserves in the Chittoor, Palmanér and Wallajanagar taluks were surveyed, and the survey of the forests in the Chandragiri taluk was also commenced.

The triangulation of the Pachamalai, Kollimalai and Kalroyan hills in the *Salem district* and of a small area in *North Arcot* was completed. In *Kurnool* the triangulation of the Nallamalai and the adjoining hills was commenced. Boundary traversing was also carried out to some extent.

The work turned out in each district was as follows:—

| District. | | Triangulation. | Boundary traversing. | Topography. |
|---|---|---|---|---|
| | | SQ. MLS. | L. MLS. | SQ. MLS. |
| Kurnool .. .. .. .. .. | | 1,200 | 46·3 | .. |
| Salem .. .. .. .. .. | | 600 | 303· | 492·8 |
| North Arcot .. .. .. .. | | 15 | 470·8 | 471·6 |
| Total .. | 1895–96 .. | 1,815 | 820·1 | 964·4 |
| | 1894–95 .. | 1,918 | 849·5 | 970·9 |

Compared with the previous year, the area surveyed shows a trivial decrease. This is ascribed to the entertainment of new men. Until the close of the field season, these men were unable to undertake independent work.

The area surveyed was mapped in 48 sheets, two of which being partially surveyed have been kept back. The number of sheets for the Salem district consisted of 19, which comprise 32 reserves and proposed reserves completely surveyed and 13 only partially surveyed. The sheets for North Arcot numbered 27, which, as in the case of Salem, include also areas partly surveyed during the year. Besides these, 19 sheets of the North Arcot district, which were ready for publication last year, were recalled and, after correcting their boundaries which required revision, have been sent back to be published.

| Years. | Topography completed. | Cost rate per . |
|---|---|---|
| | SQ. MLS. | SQ. MLS. |
| 1888–89 .. .. .. .. | 168 | 162 |
| 1889–90 .. .. .. .. | 214 | 149 |
| 1890–91 .. .. .. .. | 465 | 112 |
| 1891–92 .. .. .. .. | 659 | 97 |
| 1892–93 .. .. .. .. | 788 | 78 |
| 1893–94 .. .. .. .. | 881 | 73 |
| 1894–95 .. .. .. .. | 971 | 67 |
| 1895–96 .. .. .. .. | 964 | 66 |

The marginal table shows the outturn of topography and the cost rate of each year since the commencement of work in this Presidency. The results are satisfactory.

The actual expenditure, including cost of instruments for the financial year ending 31st March 1896, amounts to Rs. 74,822 and that for the survey year ending 31st August 1896 to Rupees 75,900. Deducting the contribution payable by the Government of India, the cost as adjusted by the Accountant-General of the Presidency amounted to Rs. 54,837 (*vide* Form No. 59).

The Government of India have arranged to transfer from the Central Provinces No. 9 Survey Party for forest surveys during 1896–97. With the advent of this party and the excellent progress which is now being made by the existing Party (No. 19), it is hoped that forest surveys will be an accomplished fact in this Presidency within a measurable distance of time.

18. The departmental staff of temporary surveyors and draughtsmen was also at work during the year.

In the *Northern Circle* the outturn of work by the surveyors was satisfactory in *Ganjám*, *Vizagapatam*, *Kistna*, *Kurnool*, and *Anantapur*, but poor in *Bellary*. In *Ganjám* 120 miles were surveyed, of which 109 miles were mapped. The length of

reserve boundaries traversed in the *Vizagapatam district* was 114 miles, and the total area of the blocks surveyed about 136 square miles. The outturn of the surveyor's work in *Kistna* consisted of the survey of one reserve, the plotting of two reserves, the demarcation of 22 reserves of 61 square miles, inserting the rights of way, &c., in plans, and the preparation of plans for notification under section 4. In *Kurnool* the work done was the survey of the boundary lines unsurveyed hitherto, and of occupied lands included in proposed reserves as well as a commencement of a detailed interior survey of one reserve; while in *Anantapur* 10 blocks of 45 square miles were surveyed and mapped.

In the *Central Circle* departmental survey was confined exclusively to the *Salem* district. There were frequent changes in the staff which consisted of two surveyors. They were engaged for the greater part of the year in surveying the disputed patta lands on the Kollimalais. They traversed also boundaries of eight proposed reserves completely and one partly.

In the *Southern Circle* survey work was carried on in *Madura*, *South Malabar* and *South Canara*. In *Madura* the work lay in connection with the seven blocks of 10 square miles, notified under section 4 since the departure of the Survey of India Party. Work was commenced only in April and comprised three blocks completely and one partly surveyed. In *South Malabar* some progress was made in the survey of the new Amarampalam reserve; and in *South Canara* the extent reported to be surveyed is 67 miles (chain and compass) and 61 miles (plain table). In the last-named district only one surveyor was employed during the greater part of the year, as in the Puttur Range the Revenue Survey has undertaken the work.

19. The draughtsmen employed in all the circles were, as usual, engaged in preparing sketch-maps to accompany further proposals for reservation and in posting and maintaining the maps prescribed in the Forest Code. Details of information showing the progress made in connection with the maintenance of these map records are abstracted in Appendix D. It is to be regretted that reports from several districts do not furnish a succinct statement of the progress made as required by Government, and Collectors have been directed to pay special attention to this matter in future reports.

The forest atlases for the use of the Government, Board, &c., which were on the scale of 8 miles to the inch, were replaced during the year by larger ones on 4 miles to the inch.

The area of reserved forests in all districts, for which final maps have been prepared up to 30th June 1896, amounts to 5,248 square miles. There is a decrease on the previous year's figure. Details for each district and explanation for the variations will be found in Appendix E.

## CHAPTER II—MANAGEMENT OF STATE FORESTS.

### (1) Regulation of Management.

#### (a) *Working Plans and their control.*

20. In the last report it was urged that settlement and want of adequate establishment were the chief impediments to seriously undertaking the task of framing working plans. These obstacles continued and still continue to exist. Marked progress has, however, been made as will be seen from the following details. The collection of statistics for future plans has also not been neglected.

*Northern Circle.*

In *Vizagapatam* rough working circles were formed near the chief markets, in which fellings have been located in experimental coupes. In *Gódávari* a fresh working plan was prepared for the Upputur block which is still under settlement, and the working plan of the Narsapur plantations had to be altered to meet an urgent demand for casuarina by the Public Works Department. In *Kistna* only one preliminary working plan for the Gopuvanipalam reserve was accepted by the Conservator. It is proposed to treat the majority of the reserves in the district on the very simplest principles, namely, clubbing several reserves together into one working circle as they are intended chiefly for grazing. Several working plans based on these principles are being framed and are reported to be nearly ready for submission, but the Conservator doubts whether the District Forest-officer is not attempting too much with the staff

at his disposal. Coupe No. III of the Guntúr babul (*Acacia arabica*) working circle was exploited during the year. Its area is 190 acres and the standard trees retained number 117. The outturn was not so good as in previous years, the yield being 4·85 tons per acre of wood over 2 inches diameter, 1·49 tons of wood under 2 inches and 1·17 tons of thorns—a total of 7·51 tons an acre. The mangrove forests were worked in accordance with the provisions of the working plan. In *Bellary* the provisions of the working plan for the eastern slopes of the Ramandrug Range have been carried out. It was again found that the demand for wood *in situ* was very small; a depôt was consequently established at Bellary in April 1896. The success of this measure appears problematical. Some experimental coupes made in other reserves were only partially successful; except in the vicinity of *Bellary* there is little or no demand.

*Central Circle.*

In *Cuddapah* no new working plans were made during the year. The provisions of the Balapalle working plan were adhered to, the outturn being 547 tons as against 564 tons from the two compartments worked in the previous year. In *Nellore* a preliminary working plan for the Rapur-Yerrakonda reserve—area 23,040 acres—was approved by the Conservator. It provides a regular series of improvement fellings extending over fifteen years. Provision has been made to meet grazing requirements. In the Srîharikóta forests cutting was carried on partly in the second and partly in the third compartment, and 1,995 tons were extracted during the year against 2,495 tons in the previous year. The decrease was due to a number of fuel waggons being out of repair. It is reported that it was not possible to work the casuarina plantations on any settled working plan, as a large number of trees die out in patches every year without reference to age. In *South Arcot* simple working plans based upon area were prepared for fourteen blocks and approved by the Conservator. The provisions of the preliminary working scheme for the Annamalai reserve in the Tiruvannámalai Range and of the working circle comprising the casuarina plantations of Talankodu, Fort St. David, and Shonankuppam, in the Cuddalore Range were adhered to. Owing to better demand the revenue realized was larger than the estimate given in the schemes. The preparation of the working scheme embracing the casuarina plantations of Dhoni Durai (north and south), Nochikadu and Periyakuppam, referred to in last year's administration report, is still delayed owing to a re-arrangement of coupes in one plantation, necessitated by the exclusion of a large extent of useless and unproductive land. In *Trichinopoly* working plans for the reserved forests and proposed reserves of the Udaiyárpálaiyam Range, except the padugais, were submitted on the last day of the year. They were approved by the Conservator provisionally, subject to revision and submission for the Board's sanction, after the question of reservation in the range has been finally settled. In *Tanjore* working plans for the Tirumulavásal casuarina plantations and the Vettangudi reserved forest were submitted towards the close of the year and approved by the Board.

*Southern Circle.*

In *Tinnevelly* it is reported that a definite commencement was made to bring coupe fellings under systematic working plans. It is being decided by careful experiment under what conditions each of the different systems of departmental or contract working becomes expedient, and when the general public can be trusted to cut and remove the produce themselves. The working scheme for the Padar malai block of the Mandanthorai working circle has been followed, but as the whole of the first coupe has not been completely worked over, no definite conclusions can be arrived at. In *Madura*, Mr. Latham has been estimating the stock on the dry hills in the Dindigul and Mélúr taluks with a view to regulation of the coupe fellings. These have been hitherto worked to obtain the maximum revenue irrespective of the area, or volume available for continued operations. In the *Nilgiris* a working plan was drawn up for the plantations in and around Ootacamund by Mr. Tireman, but its adoption has been delayed for a year when the demand is expected to be steadier. In *South Malabar* the working plan prepared by Mr. P. M. Lushington for the Nilambúr teak plantations was not sanctioned by the Board until after the close of the year. The Walayar working plan has proved to be based on too short a rotation for the re-growth of coppice. In *North Coimbatore* a preliminary working plan for a portion of the Vellamundi reserved forest was framed and submitted to the Board during the year.

It had to be returned for revision and final orders were not passed during the year. A working plan for the babul areas is in course of preparation. In *South Coimbatore* the provisions of the Sholakarai working plan were carried out. It is reported that the working plan of the Singara Tope circle will require revision. Preliminary working plans for other forests are in course of preparation.

(b) *Annual Plans of Operations.*

21. These were submitted to the Board for some districts with the budget, while for others the details entered in the budget explanatory note were accepted as plans of operations for the year. No information has been furnished in the reports of several districts as to how far these plans were adhered to, but on the whole they have been fairly followed. Collectors have been directed to give particulars of the deviations and the reasons therefor in their future reports.

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(2) WORKING OF THE YEAR.

(a) *Communications and buildings.*

22. A list of roads and buildings constructed or repaired during the year is given in Form No. 49. The total outlay, as compared with the previous year, is as follows:—

| | 1894-95. | 1895-96. |
|---|---|---|
| | RS. | RS. |
| Roads and bridges ... ... ... ... ... ... | 32,007 | 28,313 |
| Buildings ... ... ... ... ... ... ... | 34,143 | 41,108 |
| Other works ... ... ... ... ... ... | 3,263 | 2,662 |

The expenditure shows a decrease under all heads except "buildings." The question of a general scheme for the development of forest roads has not been lost sight of. No definite schemes can, with advantage, be prepared until some advance has been made in the matter of working plans.

Mr. Peet, Conservator of Forests, Northern Circle, who was entrusted with the task of preparing a type design for forest camps in consultation with the other Conservators and with Mr. Rogers of the Forest school, drew up three plans on the basis of the suggestions made by the last-mentioned officer and an estimate of the cost of building under these plans. After careful consideration it was not deemed desirable to prescribe hard and fast rules regarding either the style or the cost of the buildings, but the plans and estimates were generally approved, and were circulated for adoption with such modifications as local conditions might necessitate.

23. In the *Northern Circle* a sum of Rs. 7,081 was spent on roads chiefly in *Kistna* and in *Kurnool*. In the former district 28 miles of new roads were constructed in addition to repairs to an existing road; and in the latter besides constructing part of a road on both sides of the Chelama Railway station to the intended level crossing, and laying out a road from Gazulapalli bungalow to the Railway level crossing, sundry repairs to existing roads and other works were executed.

The expenditure in the *Central Circle* amounted to Rs. 3,889 on roads. Half of this outlay was upon 2 miles of a ghât road in *North Arcot*, which starts from Arungaldrug and will be continued to Peddur. The road varies in width from 8 to 15 feet, has side and cross drains and crosses a difficult line of country. In *Cuddapah* the construction of the Pedarallasagudu road was continued and 2 miles and 21 chains completed. The cost amounted to Rs. 1,861. One mile of a road into the Lankamalais was finished and repairs to other roads were undertaken

In the *Southern Circle* the amount expended on roads was Rs. 17,243. Repairs to existing important ghât roads in *North* and *South Coimbatore*, and *Tinnevelly* account for a considerable portion of this. In the *South Coimbatore* division, a sum of Rupees 2,385 represents the contribution paid for the efficient and thorough repair of the Anamalai-Sethumadai road under the supervision of the Engineer of the Local Fund Department, that department paying an equal sum. The road is useful for the public, as well as for the Forest Department for transport of timber. In *Tinnevelly* and *North Malabar* 6 and 4 miles, respectively, of new roads were constructed, and the existing ones were maintained.

24. The expenditure on buildings has increased in the *Northern* and *Southern Circles* and decreased in the *Central Circle*. It includes also the pay of bungalow watchers.

| — | 1894-95. | 1895-96. | Difference. |
|---|---|---|---|
| | Rs. | Rs. | Rs. |
| Northern Circle .. | 12,317 | 16,318 | + 4,001 |
| Central ,, .. | 8,004 | 6,609 | — 1,395 |
| Southern ,, .. | 13,822 | 18,181 | + 4,359 |

In the *Northern Circle* in *Kurnool* the most important new work was the construction of a range house and office at Nandyal, which was nearly completed during the year. A few guards' and tannadars' houses were also constructed. In *Vizagapatam* and *Godávari*, besides repairs to existing buildings, several rest-houses were built; and in *Kistna* four range camps were newly constructed during the year.

In the *Central Circle* the expenditure on buildings was chiefly confined to repairs in *Salem*, *North Arcot* and *Cuddapah*. In the last-named district some new buildings were also constructed, the chief being a rest-house at Bakarapet.

In the *Southern Circle* several necessary new works were executed in *North* and *South Coimbatore*, *North Malabar* and *Tinnevelly*. The works in *North Coimbatore* consisted of the construction of four rest-houses and a few sheds for storage of sandalwood, and those in *South Coimbatore* of two inspection sheds, the District Forest-officer's rest-house at Punachi and range quarters at Méttupálaiyam. There was also a large outlay on repairs in the latter division. Besides sundry repairs to old buildings, two serambies and two elephant kraals were constructed in *North Malabar*, and three rest-houses, two forest guards' and watchers' lines and sundry other works in Tinnevelly.

25. *Tramways.*—The results of the working of tramways are recorded in Form No. 65.

It will be observed that the length of the line at work in the Srîharikóta and the casuarina plantation ranges in *Nellore* was $5\frac{3}{4}$ and 4 miles respectively. The actual outturn in the former range fell short of the previous year's figure by 491 tons which accounts for the short profit. Owing to the small number of fuel waggons and to the distance between the place of cutting and the canal basin the whole of the wood cut could not be removed. The net loss up to the end of 30th June 1896 has been reduced from Rs. 961 to Rs. 748. In the casuarina plantation range there was a slight fall of 61 tons in the outturn. The net gain on this line up to end of 30th June 1896 is Rs. 23,604. It is noted that the figures shown as net profit in 1893–94 and 1894–95 have been considerably modified, the estimated cost of transport by country carts having been erroneously calculated in those years at As. 6–4 and As. 5–6 per ton instead of As. 14–5 and As. 14–6 per ton respectively.

The tramway in *Cuddapah* has, as usual, not paid its expenses. The length of line worked is shown as $1\frac{1}{2}$ miles against $1\frac{1}{4}$ in the previous year, while the outturn during the year shows a decrease of 421 tons. The total loss up to the end of the forest year under report is Rs. 3,743.

The length of the line at work in *South Coimbatore* was 4 miles as in previous year. There was an increase of 170 tons in the outturn. The net result of the working shows a loss of Rs. 22,004 up to the end of 30th June 1896.

In paragraph 13 of its review on the Forest Administration Report for 1894–95, Government suggested that the tramway statement might be improved by the addition of a footnote, explaining the data upon which the estimated cost of carting has been arrived at. This information has not been furnished in any of the reports, and the Collectors concerned have been requested to pay special attention to this matter in future reports.

(b) *Protection of forests from injury.*

(1) General protection and breaches of Forest law.

26. Forest crime is confined practically to illicit grazing, petty thefts and firing forests through incendiarism or negligence. But, as observed in the report for 1894–95, it is not possible to attain any marked measure of success in checking it until the subordinate staff is adequately augmented. Having regard to this fact the results of the year may be regarded as satisfactory.

27. Detailed particulars in regard to prosecutions for breaches of Forest laws during the year under report is given in Form No. 50, but an abstract thereof, supplemented with particulars of the preceding year in order to facilitate comparison, is given below.

| Name of Circle. | Year. | Number of cases pending at the commencement of the year. | New cases of the year. | | | | | Total cases. | Disposed of during the year. | | | | | Cases pending at close of the year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Injury to forests by fire. | Unauthorized felling or appropriation of wood and minor produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. Number of cases. | Acquittals. Number of cases. | Compounded. Number of cases. | Withdrawn. Number of cases. | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Northern Circle .. | 1894–95 .. .. .. | 492 | 10 | 1,560 | 715 | 263 | 2,548 | 3,040 | 876 | 224 | 1,108 | 257 | 2,465 | 575 |
| | 1895–96 .. .. .. | * 493 | 12 | 1,809 | 802 | 239 | 2,862 | 3,355 | 940 | 284 | 1,269 | 302 | 2,795 | 560 |
| | Difference in favour or against the year under report .. .. .. | + 1 | + 2 | + 249 | + 87 | — 24 | + 314 | + 315 | + 64 | + 60 | + 161 | + 45 | + 330 | — 15 |
| Central Circle .. | 1894–95 .. .. .. | 538 | 40 | 2,067 | 2,206 | 466 | 4,779 | 5,317 | 1,594 | 331 | 2,499 | 331 | 4,755 | 562 |
| | 1895–96 .. .. .. | * 574 | 20 | 2,229 | 2,190 | 258 | 4,697 | 5,271 | 1,436 | 317 | 2,463 | 460 | 4,676 | 595 |
| | Difference in favour or against the year under report .. .. .. | + 36 | — 20 | + 162 | — 16 | — 208 | — 82 | — 46 | — 158 | — 14 | — 36 | + 129 | — 79 | + 33 |
| Southern Circle .. | 1894–95 .. .. .. | 574 | 29 | 1,466 | 733 | 328 | 2,556 | 3,130 | 819 | 195 | 1,502 | 316 | 2,832 | 298 |
| | 1895–96 .. .. .. | 298 | 62 | 892 | 837 | 260 | 2,051 | 2,349 | 690 | 195 | 799 | 247 | 1,931 | 418 |
| | Difference in favour or against the year under report .. .. .. | — 276 | + 33 | — 574 | + 104 | — 68 | — 505 | — 781 | — 129 | .. | — 703 | — 69 | — 901 | + 120 |
| Total for the Presidency .. .. | 1894–95 .. .. .. | 1,604 | 79 | 5,093 | 3,654 | 1,057 | 9,883 | 11,487 | 3,289 | 750 | 5,109 | 904 | 10,052 | 1,435 |
| | 1895–96 .. .. .. | 1,365 | 94 | 4,930 | 3,829 | 757 | 9,610 | 10,975 | 3,066 | 796 | 4,531 | 1,009 | 9,402 | 1,573 |
| | Difference in favour or against the year under report .. .. .. | — 239 | + 15 | — 163 | + 175 | — 300 | — 273 | — 512 | — 223 | + 46 | — 578 | + 105 | — 650 | + 138 |

* Revised figures; for explanation (*vide* Form No. 50).

28. The number of cases pending at the beginning of the year is shown as 1,365 against 1,435, which was the closing balance of 1894–95. The variations occur in *Vizagapatam* and *Gódávari* in the *Northern Circle*, and in *Salem* in the *Central Circle*. In *Vizagapatam* only eleven of the ninety cases pending at the close of 1894–95 were taken up, the rest being only occurrence reports based on insufficient grounds. The variations in the other two districts have not been explained by the Collectors concerned. The total number of new cases during the year shows a decrease of 273 cases or a little less than 3 per cent. on the preceding year's total for the Presidency. There was an increase of 314 cases or 12 per cent. in the *Northern Circle* and a decrease of 82 and 505 cases or about 2 and 20 per cent. in the *Central* and *Southern Circles*, respectively. The number of cases of injury by fire diminished largely in the *Central Circle* and increased in the other two *Circles*, principally in *Gódávari* in the *Northern Circle* and *Madura* in the *Southern Circle*.

The number of cases of unauthorized felling or appropriation of wood and minor forest produce rose chiefly in *Kurnool* and *Bellary* in the *Northern Circle*, and in *Chingleput* and *South Arcot* in the *Central Circle*, while the number in the *Southern Circle* showed a large falling off which occurred mainly in *South Canara*. The increase in the *Northern Circle* was partly counterbalanced by the decrease in *Anantapur*, where concessions were made regarding removals from unreserved lands. The rise in *Bellary* was due to better supervision, and the chief offences were for taking fuel for jaggery boiling. The increase in *Chingleput* is ascribed to better supervision, and that in *South Arcot* to occurrence of cases in unreserved lands under the general supervision of the Forest Department. The increase in these districts was, however, counterbalanced to a degree by a decrease in *Salem*. The agricultural season in the district was favourable during the year, and there was therefore less temptation for poorer classes of people to commit forest offences. The large decrease in *South Canara* is ascribed, as reported last year, to the system of registering forest offences as petty or grave, whereby the accused in the former class were let off with a warning, except in a few instances where such offences were constantly repeated, or where an old offender was concerned. The Conservator, Southern Circle, remarks that "the system is considered to have worked well, but introduced as it was only in the middle of 1894–95, it is early to say with certainty whether it has resulted in more respect being shown for our regulations."

The detection under illicit grazing has increased in the *Northern Circle* mainly in *Kistna*, *Kurnool* and *Anantapur*, and in the *Southern Circle* principally in *Madura*. The increase in *Kistna* is ascribed to the refusal of the graziers in certain villages to take out permits, under the mistaken impression that as Government had opened a few reserves it would eventually throw open the rest also. The rise in *Kurnool* was due to the increased strength of the patrolling establishment, while that in *Anantapur* has not been explained. *Ganjám* and *Vizagapatam* on the other hand show a decrease. There were fewer attempts at illicit grazing in *Ganjám*, where cattle-owners are said to be beginning to learn that it is far more advantageous to graze with a license than to do so without one, and this is borne out by the increased collection under grazing fees during the year. The fall in the number of cases in *Anantapur* has not been explained. The large increase in *Madura* is ascribed to the system introduced in the district of registering all cases, including those in which offenders were unknown. There was a falling off in the number of cases of illicit grazing in *South Coimbatore* due to lands in Palladam being declared unreserved. Grazing offences in the *Central Circle* show a decrease on the whole. There was an increase in *Cuddapah*, *Chingleput* and *Salem* which was more than counterbalanced by the large diminution in *South Arcot* and *Trichinopoly* due to better supervision. The increase in *Cuddapah* is the result of illicit browsing of goats and that in *Chingleput* and *Salem* has not been explained.

The number of cases under other offences shows a decrease in all the circles, notably in *Vizagapatam* in the *Northern Circle*, and *Cuddapah* and *South Arcot* in the *Central Circle*. In *Vizagapatam* the decrease is explained by the fact that in the last year cases not falling under "other offences" were erroneously shown thereunder by the Magistracy.

29. The percentage of cases (1) withdrawn, (2) compounded and (3) prosecuted to cases disposed of during the year as compared with the results of the preceding year, is as follows:—

| Name of Circle. | Year. | Percentage of cases withdrawn to cases disposed of. | Percentage of cases compounded to cases disposed of. | Percentage of cases prosecuted to cases disposed of. | Percentage of acquittals to cases dealt with by the Magistracy. |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Northern Circle .. .. .. | 1894–95 .. .. .. | 10 | 45 | 45 | 20 |
| | 1895–96 .. .. .. | 10·8 | 45·4 | 43·8 | 23 |
| Central ,, .. .. .. | 1894–95 .. .. .. | 7 | 53 | 40 | 17 |
| | 1895–96 .. .. .. | 9·8 | 52·7 | 37·5 | 18 |
| Southern ,, .. .. .. | 1894–95 .. .. .. | 11 | 53 | 36 | 19 |
| | 1895–96 .. .. .. | 12·8 | 41·4 | 45·8 | 22 |
| Total .. | 1894–95 .. .. .. | 9 | 51 | 40 | 18 |
| | 1895–96 .. .. .. | 10·7 | 48·2 | 41 | 20·5 |

The variations in the percentages of cases prosecuted are accounted for by the variations in the percentages of cases withdrawn and compounded.

The percentages of acquittals to cases dealt with by the Magistracy have risen in all circles during the year. The increase for the Presidency amounts to 2 per cent., and it should not be taken generally as testifying to carelessness on the part of officers in sending up or conducting cases before Magistrates. It is true that cases are sometimes unavoidably entrusted to ill-educated inferior subordinates and result in acquittals; it has also to be borne in mind that in the majority of cases the only evidence procurable is that of a poorly-paid watcher or guard, and that often Magistrates refuse to accept this unsupported evidence. Tampering with prosecution witnesses is also not unknown. Taking the Presidency as a whole, and having regard to the large number of cases sent before the Magistrates and the extent of a Range officer's charge, 20 per cent. of acquittals may be considered as a moderate figure.

The districts of *Gódávari* and *Kurnool* in the *Northern Circle*, *Nellore* in the *Central*, and *South Canara*, *Nilgiris*, *Tinnevelly* and *North Malabar* in the *Southern Circle* chiefly contributed to the increase. The percentage in *Gódávari* rose from 20 to 29, while that in *Kurnool* from 22 to 32. The increase in the latter district is ascribed to the conduct of cases being necessarily entrusted to inexperienced foresters or ignorant forest guards, while the accused were defended by experienced pleaders. The percentage of acquittals in *Nellore* rose from 15 to 21 and no explanation has been furnished by the Collector for the increase. There was an increase of 9 and 13 per cent. in *South Canara* and *Nilgiris*, and 21 per cent. each in *Tinnevelly* and *North Malabar*. The increase in *Nilgiris* and *North Malabar* has not been accounted for. The failure on the part of the watchers in *South Canara* to withstand cross examination, and the unsuccessful prosecution of under-aged boys in cases of illicit grazing in *Tinnevelly* swelled the percentage of acquittals in these districts. There was a decrease of 12 per cent. in *Vizagapatam*, due to careful enquiries insisted on by the District Forest-officer on the part of Range officers before sanctioning prosecutions, 10 per cent. in *Bellary* and 23 per cent. in *South Malabar*. In the latter district four out of the five acquitted cases related to tresspass and unauthorised felling and removal of trees in escheat lands selected for reservation, and as the title of the Government to these lands could not be proved, the cases were acquitted. The variations in the other districts are small and call for no remarks.

The percentage of cases withdrawn to cases disposed of during the year shows a small increase for the Presidency. The increase occurred principally in *Ganjám* and *Gódávari* in the *Northern Circle*, *Nellore* and *Tanjore* in the *Central Circle*, and *North Coimbatore* in the *Southern Circle*. The percentage in *Ganjám* rose from 16 to 21 on account of withdrawals of cases in which the evidence was not strong enough to ensure conviction, though many could have been compounded. There was an increase of 8 per cent. in *Gódávari*, 6 in *Nellore*, 9 in *Tanjore* and 10 in *North Coimbatore* for which no explanation has been furnished. The percentage of cases compounded to cases

disposed of shows a decrease in all the circles except the *Northern Circle*, where it has risen by only ·4 per cent. The total for the Presidency shows a fall of 2·8 per cent. In the *Northern Circle* the decrease occurred chiefly in *Ganjám*, *Kistna* and *Kurnool*. There was a large increase in the percentage in *Vizagapatam* and *Bellary*. In the former district the people, especially in the Sarvasiddhi taluk, are said to be becoming better acquainted with the provisions of the Forest laws, and to prefer, when guilty, to pay a small compensation rather than go to court. The increase in *Bellary* consists of illicit felling of fuel for jaggery boiling, referred to above, and illicit tapping of date trees. The former class of offences was compounded to avoid inconvenience to the ryots and the latter also similarly treated, because they were committed under a misapprehension that they would be leniently dealt with. There was a considerable increase also in *Tanjore* in the *Central Circle* and *Tinnevelly* in the *Southern Circle*. The rise in *Tinnevelly* is attributed to the fact that the District Magistrate directed Magistrates to give the accused a final chance to pay the composition fees when they appeared in court, instead of standing their trial. The following statement shows the amount of compensation realized during the year as compared with that in preceding year :—

| Name of Circle. | Year. | Amount of compensation realized. | Average amount per case. | Average amount per person accused. |
|---|---|---|---|---|
| | | Rs. | Rs. A. P. | Rs. A. P. |
| Northern Circle .. .. | 1894–95 .. | 11,443 | 10 5 0 | 3 9 0 |
| | 1895–96 .. | 13,512 | 10 6 5 | 3 8 1 |
| Central ,, .. .. | 1894–95 .. | 22,624 | 9 1 0 | 3 4 0 |
| | 1895–96 .. | 15,806 | 6 4 2 | 2 3 2 |
| Southern ,, .. .. | 1894–95 .. | 10,551 | 7 0 0 | 3 5 0 |
| | 1895–96 .. | (*a*) 5,821 | 7 3 5 | 2 6 4 |
| Total for the Presidency .. | 1894–95 .. | 44,618 | 8 12 0 | 3 5 0 |
| | 1895–96 .. | 35,139 | 7 7 6 | 2 7 10 |

(*a*) Figures for Malabar, North and South, have not been furnished, except a sum of Rs. 100 stated in the report for the Northern Division to have been levied as compensation in one case. In striking the average the number of cases and persons entered against South Malabar has been omitted.

The average for the Presidency per case and per person accused shows a decrease of Rs. 1–4–6 and As. 13–2, respectively. The decrease occurred mainly in *Ganjám* in the *Northern Circle*, *North Arcot* and *South Arcot* in the *Central Circle* and *South Canara* and *North Coimbatore* in the *Southern Circle*. In *Ganjám* the discontinuance of the practice of compounding all grazing offences for twice the grazing fees contributed to the decrease. Each case is dealt with separately now. In *North Arcot* many offences punished by impounding the animals have been condoned, and there has been a reduction in the rate of compensation fees demanded. No explanation has been furnished for the decrease in the other districts.

30. In paragraph 9 of its review on the report for 1894–95, Government remarked with reference to the alleged illicit grazing in the Tiruvannámalai range of the *South Arcot* district, that the rates of composition for grazing offences in the range should either be raised, or more ample provision should be made for the grazing requirements of the neighbourhood. The matter formed the subject of inquiry during the year. From the Collector's report since received and submitted to Government, it is apparent that provision for goat browsing is the difficulty. The area of Government unreserved uncultivated lands in the taluk amounts to 119,900 acres or 20 per cent. of the total area. It would be impossible to make provision in this range for goat browsing in the reserved forests without prejudicing the interests of agriculturists. The area available for grazing their cattle is far from excessive. After full consideration, the Board has come to the conclusion that an enhanced pound fee should be imposed in the case of goats.

31. Of the cases during the year the following may be considered as of some importance. In *Kurnool* there was a series of cases of removal of first-class timber from the Nallamalais, and one of systematic theft of engine fuel from the Pattikonda taluk sold to the Madras Railway at Gooty. The former cases remained mostly undisposed of, and in the latter the principal accused was fined Rs. 100, and the Range officer is

under trial for abetting and aiding him. One case of surreptitious mining for mica in the Rapur taluk and another of illicit cutting of red-wood posts in the Veligondas of the same taluk occurred in *Nellore*, and were pending at the closeof the year. The case in which guard and watchmen in *South Arcot*, referred to in the report for 1894–95, were severely handled while engaged in detection resulted in the conviction of the accused in the lower court. The conviction was annulled by the Joint Magistrate on appeal. There was during the year one case of illicit felling by a demarcation contractor of a large number of babul trees in the Villupuram Range. In *South Canara* Kora Nair, landlord of a large estate, committed mischief by burning a block of Government forest which he claimed as part of one of his villages. He was proved to be guilty and fined Rs. 500 by the Sub-Magistrate, and the conviction was upheld in the Sessions Court. Another prosecution against the same individual for digging a pit in a reserved land for capturing an elephant was pending at the close of the year. In *North Malabar* there occurred two serious cases of illicit felling and removal of timber, in each of which the accused were fined Rs. 100 and the timber confiscated. In *North Coimbatore* a series of systematic thefts of sandalwood was detected during the year. The District Forest-officer was successful in the prosecution of the smaller men but failed in the most important one, in so far that the accused got off on appeal. The main point discovered was the connivance of Government servants, in both Revenue and Forest Departments, in the fraudulent alienation of Government sandal trees to applicants for land on *pattas*. It is satisfactory to note that the Collector has decided upon a systematic enquiry into the ownership of sandal trees and their registration. The number of cases pending at the close of the year was 1,573 against 1,365 at its commencement. The increase is spread over several districts, *Bellary*, *Cuddapah*, *South Canara* and *Madura* contributing most.

### (2) Protection from fire.

32. The results of fire conservancy operations compared with those of the year preceding are exhibited in the following statement:—

*Fire-protection.*

| Circle. | During 1894–95. | | | During 1895–96. | | |
|---|---|---|---|---|---|---|
| | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. |
| | | | Rs. A. P. | | | Rs. A. P. |
| Northern .. | 1,128 | 93 | 10 14 3 | 1,198 | 89·5 | 11 9 4 |
| Central .. | 2,517 | 94 | 5 2 8 | 2,517 | 96 | 4 15 5 |
| Southern .. | 1,334 | 94 | 12 11 11 | 1,879 | 93 | 8 7 1 |
| Total .. | 4,979 | 94 | 8 7 11 | 5,594 | 94 | 7 8 10 |

There was an increase of 615 square miles in the area attempted to be protected, while the cost incurred, amounting to Rs. 42,243 as per Form No. 51, shows a slight decrease of Rs. 52 on the previous year's expenditure which amounted to Rs. 42,295. When compared with the rate for the previous year, the average cost per square mile is higher in the *Northern Circle*, and lower in the other two circles as well as for the Presidency taken as a whole. The increased cost in the *Northern Circle* was, in a great measure, due to extended operations in *Bellary*; in the leased forests lines were widened, new lines were cut and inspection paths opened. In the majority of districts fire-protective measures are confined to the entertainment of fire-patrols. In *Ganjám* the inspection paths in Goomsur serve as fire traces and are kept cleared by the patrols. In *Bellary* two guide lines are cut, 10 feet wide, enclosing an uncut space of 40 to 100 feet according to locality, and the space between is burnt off. In *Anantapur* and *South Coimbatore* outer lines, 30 feet wide, are cleared and burnt and the blocks are subdivided into compartments by means of cross traces, 10 feet or more wide. The fire-patrols clear the traces of all subsequent accumulations of leaves, &c. In *Nellore* no fire

lines nor fire traces were made, and the protection consisted in watching and protecting the jungles. In *North Arcot* only a few of the reserves are protected by special fire lines. The ordinary outer and internal demarcation lines cleared before the commencement of the fire season serve as fire lines, and protection is generally confined to these, augmented by a staff of watchers. In *South Arcot* the system of fire protection adopted consisted generally of clearing lines, fire tracing the same and posting fire-patrols to extinguish fires. There has been no regular scheme of fire lines and patrol in *Madura*. Fire-protection was of a very general description consisting in some cases of employment of fire-patrols, who had no lines to patrol, and in others of lines which were merely traced without any cleaning and without any definite prescriptions as to the points of beginning or end and breadth of line in particular parts. It is noted that an attempt is being made to systematize protection.

33. The area burnt is reported at 10·5 per cent. of the area attempted in the *Northern Circle* and at 4 and 7 per cent. in the *Central* and *Southern Circles* against 7, 6 and 6 per cent., respectively, in the previous year. The percentage for the several districts as compared with figures for 1894–95 is presented in the following statement:—

| Northern Circle. | | | Central Circle. | | | Southern Circle. | | |
|---|---|---|---|---|---|---|---|---|
| Districts. | Percentage of fires to area attempted in 1894–95. | Percentage of fires to area attempted in 1895–96. | Districts. | Percentage of fires to area attempted in 1894–95. | Percentage of fires to area attempted in 1895–96. | Districts. | Percentage of fires to area attempted in 1894–95. | Percentage of fires to area attempted in 1895–96. |
| Ganjám .. | 2 | 5 | Cuddapah .. | 13 | 7 | South Canara .. | 5 | 1 |
| Vizagapatam .. | .. | 13 | Nellore .. | .. | 2 | North Malabar .. | 17 | 66 |
| Gódávari .. | 5 | 3 | Chingleput .. | .. | 2 | South do. .. | .. | .. |
| Kistna .. | 8 | 15 | North Arcot .. | 2 | 3 | Nilgiris .. | 2 | 1 |
| Kurnool .. | 33 | 23 | South do. .. | 4 | 2 | North Coimbatore. | 8 | .. |
| Bellary .. | 9 | 13 | Salem .. | 2 | 3 | South do. | 8 | 1 |
| Anantapur .. | 1 | 8 | Trichinopoly .. | .. | .. | Madura .. | 3 | 4 |
| | | | Tanjore .. | .. | .. | Tinnevelly .. | 11 | 2 |
| | 7 | 10·5 | | 6 | 4 | | 6 | 7 |

In *Vizagapatam*, the operations were small. 87 per cent. in two taluks escaped, the returns from the other taluks have not been given. The fires in Golgonda were due to neglect of the Range officer and his subordinates. The year was a disastrous one for fires in protected forest areas in *Kistna*. The rainfall was very short in the upland taluks between October 1895 and June 1896. There was a number of fires chiefly incendiary, in one case fire crossed from the *Kurnool* side. An attempt was started to demarcate this boundary with a 40 feet line, but owing to the inaccuracy of the Palnad taluk map, work was deferred pending receipt of a revised map from the Survey Department. The results in Kurnool, compared with those of 1894–95, are satisfactory. The vegetation is dense in this district and the grass in parts very high. The main paths were regularly cleared during the year to facilitate inspection, and reduce the danger of the temptation to fire the forest for facility of locomotion. In *Bellary*, the total area protected from fire amounted to 87 per cent. of that attempted under rigid protection and 91 of that under partial protection. The area burnt in the Sandur leased forests was 7,000 acres against 4,916 acres in the preceding year. There were in all 10 fires in *Anantapur* extending over an estimated area of 10,000 acres. They were apparently caused by graziers firing the unreserved forests. The percentage of failure was higher than the previous year's, owing to the exceptionally high winds that prevailed during the fire season. In *Nellore* there was a small percentage of failures. In all these cases, the fires spread from *Cuddapah* and *Kurnool* and from the zemindari tracts; this can only be expected under the present system. In *Chingleput* there were three cases of fires. One spread from the Kálahasti zemindari forest, which evidently proves that the fire lines had not been properly cleared. The area affected was not large and only the undergrowth was burnt. Several important reserves in *North Arcot* were burnt; the fires were due to incendiarism. In *Trichinopoly* and *Tanjore* fires did not occur owing to the scarcity of

undergrowth. The success in *South Canara* was due to the favourable season and timely rains. The poor results attained in *North Malabar* are largely due to another very dry season, the early rains having been very scanty. The fires were most destructive in the Chedleth range where the whole of the Kurchiyot forest, except 200 acres, and of the Rampur and Mavanhulla blocks were burnt over. The rank undergrowth in the first-named forest and the partial protection of the other two (for want of funds to employ a larger number of patrols) were the cause. There was only one fire in *South Malabar* due to incendiarism. The area affected was only 100 acres, and the offenders were convicted and sentenced to imprisonment. The success in *North Coimbatore* and *Tinnevelly* is due to efficient supervision. In regard to *South Coimbatore* the Conservator, Southern Circle, remarks: "It is regretted that fire entered the coupes of recent years which should be most rigidly protected by lines and patrols. Some improvement in detail of fire traces is reported. The area under protection remains the same as in the previous year. Maps showing portions burnt are now kept up." The result in *Tinnevelly* is satisfactory. The area specially protected has been reduced and will be further reduced when working circles have been formed and working plans formulated. During the year under report only such areas as have been worked over as coupes in the past and those areas, which the District Forest-officer contemplates immediately bringing under working schemes, have been specially protected.

(3) Regulation of grazing and protection from cattle.

34. Grazing is permitted free in unreserved lands and on payment in reserved lands and reserved forests. No limit is as a rule fixed at present upon the number of cattle to be admitted in each reserve; if prescribed, it could not be enforced by the existing staff. But where the number of cattle admitted is regulated by the extent of pasture available, preference is invariably given to cattle of the adjoining villages. With the exception of plantations, coupes closed for regeneration fellings and areas under special fire-protection, all forests are open to grazing.

The leasing system of grazing has, in most districts, been abolished in favour of permits. In *Kurnool* it prevailed to a small extent, while in *Nellore* it was continued in the case of reserved lands, permits having been for the first time issued during the year for grazing in reserved forests. On the *Nilgiris* an experimental lease, the first of its kind, was granted to a coffee-planter for grazing a fixed number of cattle over a block, with permission to allow adjoining ryots to graze free if the lessee did not graze the full number of cattle. In granting this lease it is said that the interests of the neighbouring ryots had been carefully consulted. In *Trichinopoly* the right to graze in the padugais is sold in auction.

The desirability of making provision for goat browsing in some districts has been recognized and Collectors have been asked to arrange details so as to suit the condition of their districts. In *Kistna*, *Kurnool*, *Bellary*, *Nellore* and *Chingleput* special areas were set apart for goat browsing. In *Cuddapah* goat browsing was disallowed throughout the district except under special circumstances. Except in a few districts sheep were allowed in reserves.

The fees charged for grazing being very low it has been decided to abolish the distinction between privileged and non-privileged animals, but the orders did not affect the year under report.

Information showing the area of forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile during the year is given in appendix F.

(c) *Improvement of forest growth.*

(1) Natural reproduction

35. The following has been culled from the district reports:—

Northern Circle.

In *Ganjam* reproduction of sal continues excellent. During May, the sal tracts were ravaged by caterpillars which devoured all the new leaves. Traces of the damage were noticeable throughout the district. In *Vizagapatam*, the growth of coppice, particularly *Chloroxylon Swietenia* (satinwood) and *Acacia Sundra*, is encouraging in closed areas except in the Agency tracts where reproduction is checked by the annual fires. In *Gódávari* there is a promising growth of *Terminalia*

*tomentosa*, *Xylia dolabriformis* (Ironwood) and ebony reported from Peddapuram. *Mallotus philippinensis* (the fruit of which yields a valuable dye) has seeded well during the year. The closed areas in the Rajahmundry Range show improvement. In the Agency tracts on the contrary, much injury is done to reproduction by the uncontrolled grazing. In *Kistna* it has been fairly proved that the rings of *Hardwickia binata* are annual. It was found that the annual growth in diameter of the mangrove (*Avicennia*) amounts to nearly an inch and from 1 to 2 feet in height. It is considered that the spurious rings are monthly and are probably due to the different conditions of nutrition caused by the spring and neap tides. Attempts were made to coppice casuarina—only 10 per cent. threw out shoots. In *Kurnool*, the most striking natural reproduction is that of bamboos. In 1892 bamboos seeded extensively and patches in the Nallamalais are now absolutely impenetrable on account of the dense growth of young bamboos. The coppice growth in the Chelama block continues satisfactory. An area of 120 acres was felled over during the year; inferior species were girdled and the valuable ones cut back and the stumps trimmed. In *Bellary*, reproduction is good in Ramandrug, and in parts of Donimalai and North-East Ranges. Bamboo seedlings have come up in compartment No. VI of Ramandrug and in parts of Donimalai. A great number of sandalwood seedlings was noticed in the Ramandrug Range chiefly in compartment No. 10. In a few of the closed forests in Kudligi, reproduction of *Hardwickia binata* and *Anogeissus latifolia* has been noticed, but on the whole it is poor. Owing to neglect by the Range officer, the results of closing the five-acre plots referred to in the last year's report are so far valueless. Reproduction of date and palmyra in Wontikallu, Kuppagal, Bellagallu, Tungabhadra and Basapuram reserves continues to be good. Coppice re-growth in the portions felled over in the Ramandrug Range is fairly good as also in the Donimalai and North-East Ranges where thinnings were carried out. In *Anantapur* reproduction is generally very backward, and the small sample areas referred to in the last year's report show no sign of improvement.

## Central Circle.

In *Cuddapah* reproduction from seed and coppice has been, on the whole, satisfactory *Pongamia glabra*, *Melia indica*, *Cassia Fistula* and *Albizzia amara* are reported to reproduce themselves well from seed and the last-named two species from coppice. An experiment is being tried in this district with a view of collecting notes on the results of coppicing. It consists of two areas of 12 acres each—one in a well-protected block (from fire and goats) and the other in an ordinary reserved forest liable to accidents. One acre monthly is being cut in each. In *Nellore* *Albizzia amara*, *Memecylon edule*, *Eugenia Jambolana* and *Glycosmis pentaphylla* have coppiced well. In *Chingleput* little or no reproduction from seed is reported, that from coppice in coupes continues to be good. Bamboo seedlings were plentiful in the Nagalapuram valley. In the protected areas of the Javadis in the *North Arcot* district sandalwood seedlings are plentiful. Coppice growth of red sanders and *Hardwickia* continues good in the coupes. The young bamboo plants, which appeared in 1892–93 when there was a general seeding, are making good progress. *Chloroxylon Swietenia* (satinwood) and *Anogeissus latifolia* continue to come up well in the coupes. These two species appear together everywhere and thrive apparently under similar conditions of soil and climate. In the burnt areas of Palmanér and Vellore, *Anogeissus* suffered considerably more than the other. The coppice shoots of casuarina, in the low-lying river plantations have entirely died out. Those on the Palmanér plateau have established themselves. On the whole, it has been a bad year for seed reproduction and an unfavourable one for coppice owing to deficient rainfall for two successive seasons. In *South Arcot* reproduction from seed and coppice is satisfactory in coupes protected from grazing and fire and on the Tenmalai Hills which have been thrown open to light grazing. The reproduction of *Albizzia amara*, *Acacia arabica*, *Dalbergia paniculata*, *Grewia lævigata*, *Acacia leucophlœa* and *Memecylon tinctoria* in reserved areas is satisfactory throughout the district. *Bambusa arundinacea* continue to seed profusely on the Tenmalais. In the relief camp tope in the Tindivanam Range self-sown seedlings of *ceara rubber* spring up in abundance in sheltered parts; and in the Coleroon delta tracts, the reproduction of mangrove (*Rhizophoreæ*) has been very marked. In *Salem* reproduction has been generally fair in fuel coupes. In the sandalwood tracts in the Hosúr Range few seedlings can be found. This is undoubtedly ascribable to grazing. In *Trichinopoly* reproduction from seed and coppice continues satisfactory in the Cauvery padugais. In *Tanjore* natural reproduction from seed is not promising, the dry sandy nature of the soil being unfavourable. The growth from coppice is good except casuarina.

## Southern Circle.

In *Tinnevelly* regeneration from coppice is good in the ghat forests. The reproduction of Konga (*Hopea Wightiana* and *Hopea parviflora*) is satisfactory in the ever-green forests of the Ambásamudram Range. The sandalwood seedlings in the Alagarkoil valley continue to thrive. The coppice shoots in the first coupe of Padarmalai block of the Mundanthorai working circle are fairly strong particularly those of teak. In *Madura* coppice growth in the coupes is good, the most noticeable species being *Albizzia amara*, *Wrightia tinctoria* and *Chloroxylon Swietenia*. In *North Coimbatore* the natural reproduction of valuable species is by no means satisfactory. Teak appears to spring up from seed and is then burnt back producing inferior coppice shoots. A fair young growth of blackwood (*Dalbergia latifolia*) is noticeable in places, probably from

root shoots. Coppice of satinwood (*Chloroxylon Swietenia*) in the coupes recently cut over is good. Natural reproduction of sandalwood is good particularly in the Kollegál blocks which for some time have been under protection. In the neighbourhood of Osahatti and Kothada, areas are completely stocked. In *South Coimbatore* (Tunacadavu Range) reproduction of teak is much injured by the dense growth of heavy standing trees such as *Terminalias*, *Grewias*, &c. On the other hand admission of light is followed by drawbacks notably the spread of bamboos and lantana. Regeneration from seed and coppice is satisfactory in the Pollachi Range and coppice growth in the Bolampatti and Sholakarai Ranges is good. On the Nilgiris reproduction is excellent in sholas and plantations and on the northern slopes and in the Wynaad forests. On the Coonoor slopes there is a marked absence of seedlings of the better kinds. The young bamboos flourish in spite of fires. The regrowth in the Mudumalai leased forests is for the most part of the inferior species and the question for consideration is whether the growth of valuable timber can be hoped for without resort to planting. Sandalwood flourishes in the ravines and sheltered places. In the Moyar reserve, the reproduction of teak (*Tectona grandis*), blackwood (*Dalbergia latifolia*), vengai (*Pterocarpus Marsupium*) and some other useful timbers is very fair especially in fire-protected areas. Mr. Popert's suggestions for the working of the Anamalai forests in South Coimbatore and of the Mudumalai and Benne reserved forests in Nilgiris to improve them by means of natural and artificial reproduction formed the subject of deliberations by the Collectors concerned. The proposals of the Collector of Nilgiris were received during the year, and agree with the course of action recommended by Mr. Popert. Those of the Collector of Coimbatore were not received within the year. In *North Malabar* seed of the more valuable species is reported to germinate readily, but the seedlings die off in the dry season. The bamboo is a prominent exception, for seedlings are not only numerous but survive the drought. In *South Malabar* reproduction of teak in the Amarampalem Range is limited to coppice; benteak (*Lagerstræmia microcarpa*) and blackwood (*Dalbergia latifolia*) reproduce well from seed. Bamboos seeded freely during the year on the hills in the newly added Amarampalem forest. In Chathamparai teak stumps have coppiced vigorously after the thinnings of 1894–95; in Walayar coppice growth is slow. The reproduction by seed in Chenat Nair is progressing favourably. In *South Canara* seedlings are to be found in all blocks in the Catechu forests. The coppice growth is good, the shoots being about three feet high in the area felled last March. The coppice growth on the areas felled by contractors for fuel is very good, two years' old coppice now standing about fifteen feet high. In all protected blocks reproduction is good. Tirwa, (*Xylia dolabriformis*) takes the lead generally but in suitable localities other species hold their own.

## (2) Artificial Reproduction, Plantations and Cultural Operations.

36. The area under plantations, topes and cultural operations, together with the cost incurred during the year under report is given in Form Nos. 53 and 54.

The following is a brief summary of the year's work :—

In the Agusti Nowgam casuarina plantations in *Ganjám* one hundred acres were planted at a cost of Rs. 5,598. The number of trees put down amounted to 119,716, bringing up the total to 258,693. The plantation is in good order, but the plants on the seaward slopes suffer from the drifting sands. In *Gódávari*, *Kistna* and *Kurnool* planting operations were carried on on a small scale. In *Bellary* the chief work consisted in planting out 4,500 plants in the Kuppagal reserve of *Inga dulcis*, *Albizzia Lebbek*, *Santalinus album*, *Albizzia amara*, *Hardwickia binata* and tamarind. One acre was planted in the Tungabhadra reserve with 430 seedlings of *Dalbergia Sissoo*, *Inga dulcis*, *Hardwickia*, *Albizzia amara* and *Bassia* and 200 plants of *Albizzia Lebbek* were put down in Ganikallu reserve. The *Inga dulcis* seedlings were much attacked by white ants. In the Malapanagudi block 1,037 plants of *Hardwickia* were put down and are doing well. The subject of extending the artificial plantation of date trees directed by Government in its order on the last year's report is receiving attention in *Anantapur*.

One hundred and five acres in *Nellore* were planted out with casuarina round wells. Sixty-nine thousand three hundred seedlings were put out at a cost of Rs. 1,155, the average cost per acre being Rs. 11. Nearly 10 per cent. died, but have been replaced within the year. They are in good condition. No fresh plantings of cashew were undertaken at Tammanapatam except the replacement of casualties. The condition of the Date plantations at Sríharikóta and Allipuram is far from satisfactory In *North Arcot* the casualties amongst the casuarina plants of previous years have been less owing to the absence of strong hot winds in April and May. It is noteworthy that fully-stocked plantations which for the first two or three years, appear perfectly healthy and vigorous when they attain four or five years suddenly die out. No satisfactory reason can be assigned and it is a matter for consideration whether casuarina planting should not be altogether given up and the areas stocked with indigenous trees. Besides re-stocking the blanks, thirteen acres were newly planted during the year. The expenditure incurred was Rs. 6,328 against Rs. 5,237 in the previous year and includes besides cost of re-planting that of watering transplants of previous years. Seventy-nine acres were planted with casuarina in *South Arcot* at an average cost of Rs. 13 per acre against Rs. 9 per acre in the previous year. The increase is ascribed to the prolonged period for which watering

had to be undertaken owing to the entire failure of rain between January and June. The plants put out in the previous years were also watered wherever necessary. The casuarina seedlings obtained from the Tenasserim seeds referred to in the previous year's report were planted during the year in an acre of ground in the 19-acre coupe of Shonankuppam plantation. The plants are in a healthy condition and promise well. In *Trichinopoly* in a selected block in Yesanai village thirty acres were sown with cashew. There have been many casualties during the hot weather; the survivors are reported to be from 1 to 2 feet high. A system of giving free on short lease, small areas of padugai land, to ryots on condition of their planting them up with casuarina, 9 feet, apart has been introduced. It is reported to have succeeded fairly well. In *Tanjore* thirty-six acres were planted with casuarina at varying distances. Planting 6 feet apart so far promises to give the best results. In Tirumalaivasal there has been considerable mortality in both young and older plantations. The cause is unknown but may be the exhaustion of the soil as those areas have already borne a crop of casuarina planted 6 feet apart.

In *Tinnevelly* it has been decided not to undertake works of re-planting until definite working plans are framed. Some palmyra seeds were however sown in Kudiramalai and have germinated. 21·77 acres were added to the Gundan shola plantations in the *Madura district*. In *Nilgiris* the work was limited to re-stocking blanks and to the Badaga plantations. There has been damage from cattle and the plants have died in large numbers. The result is not encouraging and the Conservator remarks that the matter will be referred to separately in his inspection report. Mr. Hooper considers that the Benne teak plantations have not proved a success. The growth has not been improved by the pruning carried out in recent years. The attempt at dibbling teak and mahogany in cleared lines in the forest near Benne has not been successful. Few plants are alive and the protection afforded has however resulted in the freeing of a well-distributed crop of natural vengai plants. Tuckle planting has also been introduced on a small scale, the cultivator giving his labour free. The result has been favourable. In *South Malabar* there was no teak planting pending orders on the working plan of the Nilambúr teak plantations, but blocks 1 to 9 were maintained and casualties replaced in the latter. Artificial reproduction was actively prosecuted in *North Malabar* in the form of tuckle planting with the object of transforming deserted patches of shifting cultivation into fully-stocked forests. The system had been commenced in the previous year. The species planted are teak, vengai and jack. On the whole they have done well. The system has been to pay the cultivators for surviving plants of a certain height at a fixed rate for plant established on abandoned ground and the Conservator of Forests, Southern Circle, remarks: "it is hoped that we shall secure good healthy plants without any such payments." The plantation of 1894 was in parts weeded. The plantations of teak are doing well, the average height of 20 years' old trees being 43 feet and girth 34 inches. Of the sandal planted in 1893, the survivors are healthy though few. In *South Canara* the casualties in the casuarina plantations were replaced to the extent of 5,000 seedlings. Sowing broad-cast in furrows and in patches generally failed. In Parappa 25 per cent. of the *Hopea* seedlings survived. In *Vizagapatam* date seeds have been sown in abandoned patta lands in the reserves. In *Bellary* two acres in the Kuppagal reserve were ploughed and sown broadcast with seeds of various kinds. The seeds have germinated. The date and palmyra seedlings of the previous years in the Kuppagal, Ganikal, Badrabal, Banavosi and Chiribi reserves and the rain trees in the Munorigi reserve are flourishing. In Cuddapah eight acres of land near Peddamandam were sown with date seeds and ten acres in the Hassanapuram reserve and fifty acres in Rámésvaram plantation with palmyra seeds. The date seeds were sown too late in the year to report upon their germination, but the palmyra seeds have germinated and are flourishing. An area of forty-two acres in the Dugarajapatam, Kottapatam and Tammanapatam plantations in the *Nellore district* were sown with seeds of various kinds in furrows. The seeds germinated freely, but most of the plants perished during the hot weather which was severe. There were also sowings in beds and open spaces. Casuarina seeds were sown in beds prepared and manured in one acre of the 1883 plantation in Tammanapatam. The seedlings came up well but were attacked by grasshoppers and destroyed. The beds were subsequently resown, but with partial success. In the Śríharikóta jungles seeds were sown in an open plot of fifteen acres and 10,000 seedlings were also planted out. Nearly 7,000 died during the hot weather and the remainder 4,000, including the survivals of last year, look healthy. In *North Arcot* a sum of Rs. 1,866 was spent on cultural operations in 15 reserves and topes, the area worked over being 1,562 acres. For the most part indigenous species were raised in nurseries and planted out, the most important ones being sandal, teak and red sanders. Unlike casuarina, these plants have as a rule not been watered except for a day or so after they were put out. The result has been on the whole far from satisfactory owing to the dryness of the past season. In *South Arcot* one hundred and sixty-four acres in the Cuddalore Range were leased out on 3 to 5 years' cowle to ryots on condition of their raising a growth of cashew plants 6 feet apart and surrendering them at the end of the period, the ryots being permitted to cultivate cereals on the land during this period. The plants thus raised are in good condition, their height ranging from 1½ to 3 feet. The cashew plants raised on the same principle in the previous years over an area of one hundred and forty-four acres are 5 feet high. Seeds of various kinds were sown in different parts of the district, and except in the case of *babul* the attempt has been a failure owing to prolonged drought. A large number of bamboo plants was also put out and all, except those put out direct from seed-beds without being previously transplanted in baskets, are flourishing. An area of forty acres in

*Tanjore* was ploughed and sown with seeds of various species, but after germination the plants perished during the hot weather. In *North Coimbatore* the Hassanur compartment has been divided into sub-compartments to be taken up in rotation with a view to assisting the natural regeneration of sandal. Sandal seeds have been dibbled over seven acres in patches of scrub where no sandal plants exist.

(3) Early thinnings; (4) Other operations for the improvement of the growing stock.

37. There is but little to be said under these heads. The establishment is undermanned and with its attention fully absorbed in selecting areas for further reservation, in forest settlement and in demarcation work it is impossible to expect better results. Only in *Bellary*, *South Malabar* and *South Canara* have there been any thinnings. This operation was undertaken in the interest of *Hopea parviflora* and *Myristica malabarica* in the last-named district. In *South Malabar* 550 acres of teak plantations were operated on during the year according to the working plan, the number of trees thinned being 27,935. Two hundred acres of the Chiribi reserve were thinned out and the outturn realised a profit. The work of freeing the growing stock by cutting out destructive climbers was attended to in several districts. The cutting of creepers and the cleaning of undergrowth were carried out to some extent in *Kurnool*, *Cuddapah*, *Nilgiris*, and *South Coimbatore*, and in the last-named division the rubbish also was cleared and burnt over 282 acres in the Sholakarai Working Circle. Prickly-pear was removed in *Salem*, *Trichinopoly* and *South Coimbatore;* and in *South Malabar* weeding, pruning and fencing operations were undertaken to a large extent.

(5) Experiments.

38. Experiments continued to be made during the year. Insects and late or insufficient rains have caused damage but the result on the whole may be regarded as satisfactory. The various kinds of exotics tried and the progress made during the year under report are shown below :—

*Acer Campbelli.*—In *Nilgiris* there are only three plants of this species in Sim's Park. These are making slow progress.

*Acrocarpus fraxinifolius.*—The plants put out in previous years on Horselykonda in the *Cuddapah* district are doing well. In *South Coimbatore* the trial made at Mount Stuart with the seed sent by the Conservator proved unsuccessful. The failure was probably due to the seed having been received and sown late in the season.

*African seeds.*—These seeds were introduced in *Nilgiris* by the late Mr. Morgan, Deputy Conservator of Forests. In consultation with the Conservator, some seed was sown in Sim's Park and Rallia reserves on 6th June 1896, a portion has already germinated. Seven varieties of seeds were sent by the Conservator to *South Malabar* where they were received and sown late in the year.

*Bahar grass.*—The experimental sowing of this grass, referred to in last year's report, proved a complete failure. A small quantity of the seed tried at Mount Stuart in the *South Coimbatore division*, also shared the same fate.

In *South Coimbatore* offsets from the *Brandisii* bamboo clump were obtained from Nilambúr and put out on the bank of the Bhaváni river. The result is failure probably owing to want of attention on the part of the Range officer.

In *Nilgiris* the experiment with the Japanese bamboos has been abandoned with the sanction of Government as the bamboos have no commercial value. Offsets have, however, been distributed to the Government gardens and amongst the forest stations for ornamental purposes for which alone they are fitted. The *Dendrocalamus Sikkimensis* and *D. Hamiltonii* planted in 1889 have attained a height of 19¼ feet and 15 feet and girth of 5 inches and 3 inches respectively.

In *North Malabar* the *Bambusa vulgaris*, *Dendrocalamus longispathus*, *D. Brandisii*, *Cephalostachyum pergracile* and *Beesha travancorica* continue to grow excellently. The cuttings of the first named species put down during the last two years thrive extremely well.

In *South Malabar Dendrocalamus longispathus* and *Cephalostachyam pergracile* in Pokote and Mulathumanna and the *Dendrocalamus Brandisii* and *D. longispathus* planted along the river banks are doing well. The large clump of *D. Brandisii* in Iravellikava planted in 1879 continues to flourish and the largest culm measured 22½ inches against 20½ inches in the previous year. The four cuttings which struck root last year were transplanted in July 1895 in other plantations but all died. Out of the 100 planted in the end of June 1895, 25 struck roots, but these will not be planted out for another year. Some additional nodes were planted in June 1896.

In *South Canara* the clumps of *D. Longispathus* are doing poorly in Coondapoor, being only 10 to 25 feet high but flourish well on the banks of the Coomardevi in the Puttur range where they are 50 to 60 feet high. Some bamboo seed of *D. Brandisii* was received from Burma and sown in suitable localities.

*Bixa orellana* in *North Malabar* is growing well.

*Burcklandia populnea.*—Out of the two lots planted in 1887 and 1888 in *Nilgiris* the first has done well.

*Causerina suberosa.*—These plants are in *Nilgiris* and are of very good growth, with a height of 22 feet and girth 11 inches.

*Ceara rubber.*—In *Ganjám* an area of 3 acres in Napier's Park at Chatrapur was planted with India rubber seedlings and they are doing well, their height ranging from 4 to 9 feet. The sowing of rubber seed in *Góddávari* was unsuccessful.

In *South Arcot* there were at the close of the year 410 trees including the self-sown seedlings (295) during the year.

In *North Malabar*, the sample rubber sent to Kew last year was reported on by the Director, Royal Garden, as follows:—

*First sample.*—Well cured, but cuts very wet, value 1*s* 6*d* to 1*s* 8*d* per lb.

*Second sample.*—Well cured, dry, rather barky, value 1*s* 9*d* to 2*s* per lb.

It is proposed to tap the trees after the rains in order to obtain statistics as to the average yield in rubber. The trees grow luxuriantly and reproduce themselves very freely.

In *South Malabar*, the *ceara* rubber trees are flourishing. The ceara reproduces itself everywhere in Nilambúr. Experimental tapping of the ceara rubber was made in April, but as the plants were then leafless they did not bleed freely and no rubber was therefore collected. They will again be tapped in 1896–97.

*Cryptomeria japonica.*—Planted in Coonoor, *Nilgiris*, in 1887. It is of very slow growth, the average height being 2 feet and girth 1¼ inches.

*Curtisia faginia.*—There are only seven plants on the *Nilgiris*, planted in 1887. Growth poor.

*Cypress macrocarfœ*—planted in Nilgiris in 1887. With some exceptions, the plants do not look vigorous. In *Madura* the plants obtained from Nilgiris and planted in Kodaikánal are of stunted growth.

*Date.*—In *Vizagapatam*, date seeds have been sown in abandoned patta lands in reserves. In *Bellary* the date seedlings of the previous years are flourishing.

The Sriharikota date plantation in *Nellore* was completely given up during the year. Of the 55 Arabian dates that remained at the end of last year, 20 succumbed during the year and the surviving ones are far from healthy. In the Allipuram date plantation 200 plants perished, leaving a balance of 4,060. In *Cuddapah* 8 acres of land were sown near Peddamandam rather late in the year. Of the 40 plants in *North Arcot* raised from the Busrah seed referred to in the last report, one died during the year. They are 9½ feet high. The 75 surviving offsets are flourishing, their height ranging from 9 to 15 feet. Owing to another dry season there has again been great mortality among the seedlings from indigenous seed in Tiruvallam and Virinjapuram. In *South Arcot* there were 117 trees at the commencement of the year to which 24 were added. Twenty died during the year leaving a balance of 121 trees with varying height from 1 to 35 feet. The date trees in *Trichinopoly* have not yet fruited and are not likely to. They are more like bushes than palms. The majority of the trees has succumbed either to insect pests or unsuitability of soil and climate and the Conservator has decided not to waste more money in watering them. The 14 plants of 1881 in the south date garden in the Vattangudi reserve, *Tanjore district*, are still alive, the growth being very slow—only 3 inches during the year. Of the 100 offsets that were planted in 1886, only 33 have survived. In the north date garden 144 trees survive, 2 having died during the year. Their height varies from 4 to 13 feet. The dates have not fruited and date planting is not a success in this district. Almost all the date palms in *South Malabar* died out.

*Dillenia Indica.*—From the fruits supplied by the Conservator of Forests, Southern Circle, 975 plants were raised in South Coimbatore.

*Divi Divi.*—The number of trees that survived at the end of the year in *North Arcot* amounted to 1,969. Half a ton of pods was collected and sold for Rs. 23. There were 47 trees in the Nattangal tope, *South Arcot*, at the beginning of the year, to which 127 seedlings were added during the year. The 123 plants in the Wandse depôt, *South Canara*, are living, but they are not looking well. They are now 3 years old and a few only are above 6 inches in height.

*Edible prickly-pear.*—There are 22 plants at Sríharikóta in the *Nellore district*. They are growing well.

*Eucalyptus.*—Of the various species of this tree planted in Sim's Park on the *Nilgiris* those of *Botryoides*, *Corymbosa*, *Siderophoila* and *Panciflora* are of poor growth. The rest are flourishing.

*Ferula rhomboidea* in *Nilgiris*. These are doing well.

*Ficus elastica.*—In *North Malabar* the plants planted last year in the Kuppady bungalow compound were damaged by fire, but they are recovering and putting out new shoots. Some cuttings put down in the early rains during the year are thriving. The seeds obtained from Assam and sown in July 1895 at Kanoth have not germinated. Some more seeds were sown in January, and regulary watered; but after germinating in the beginning of May the seedlings were attacked by insects and almost all died. The cuttings put out at Kanoth last year are growing well, but those planted in the Dindimal bungalow compound were unfortunately killed by fire.

*Chinese guava.*—Of the 60 plants basketted last year in *Nilgiris*, 17 have died and 43 remain.

*Grevillea robusta.*—These were planted in *Nilgiris* in 1888. They are of very good growth, their average height and girth being 35 feet and 16 inches, respectively.

*Hevea braziliensis.*—The two trees in *North Malabar* are growing well, one being 25 feet high.

*Hevea castilloa.*—The trees in *South Malabar* are thriving.

*Landolphia florida.*—There are 34 plants in *South Malabar*. They are doing well.

*Mahogany.*—In *Ganjám seedlings of Swietenia macrophylla* were planted out in Russellkonda and are reported to be doing well. Some seeds put down in *Vizagapatam* late in the year germinated. In Gódávari experimental planting of *Swietenia macrophylla* and *mahoganei* was made with seed supplied by the Conservator; neither was successful.

In *Kurnool* the *Mahogany* sown a few years ago at Dongabhavi and Bairnuti has all died out and only three plants are living at Atmakúr. A fresh supply of seed was made by the Conservator towards the close of the year to this district as also to *Bellary*.

In *Nellore* 82 trees of the old plantings at Sriaharikota survived at the end of the year, 12 having perished during the hot weather. Half a pound of *S. macrophylla* seeds was supplied by the Conservator towards the latter part of 1895 and sown partly in Tummanapatam plantation, partly in Sríharikóta and partly in Rapur Veligondas, some in beds and some in baskets. The seeds have not germinated, not having been promptly sown. A similar quantity was supplied in April 1896 and sown in the above localities, except Sríharikóta, which was replaced by the Udayagiri Veligondas. One hundred and four seedlings in Tummanapatam and 13 in the Rapur Veligondas are reported to be thriving. The rest failed to germinate.

*Cephælis ipecacuanha.*—In *South Malabar*, the plants are making little or no progress. They die down during the hot months and spring up again during the monsoons. The plants that survived at the close of the year on the Nilambúr hill numbered 139. The thirteen plants of 1887 at Travellikova are also not doing well.

In *Cuddapah* 243 seedlings of *macrophylla* were raised in the Balapalli nursery and transplanted in compartment III (*b*), block I of Balapalli working circle. The operation has not proved a success. Ninety-seven plants in the previous years' sowings in *North Arcot* perished. The want of moisture is fatal to the development of the species, the ten year old plants being only 17 feet high. The *macrophylla* and *mahoganei* seeds supplied by the Conservator to the *South Arcot district* during the year were sown in the Ramapuram, Muttakadu and Salavadi reserved forests and the germination was not very satisfactory. The height of the plants of 1894–95 existing in the Ramapuram reserved forest ranges from 3 to 5 feet, that of the seedlings of 1895–96 from 1 to 3 feet. A number of seedlings in the same forest died from the attacks of a grub which has been destroyed with some degree of success. There were 535 *Mahogany* plants at the commencement of the year to which 44 were added; 141 died during the year, leaving a balance at its close, of 438. Their height ranges from 1 to 55 feet.

In *Trichinopoly* the *macrophylla* and *mahoganei* have been tried here and there, but it is only in the Kulittalai padugais that they have had a fair chance, and the result is most disappointing. They appear to require as much water as casuarina and where watering was stopped during the hot weather a large number of even second year plants died. In *Tanjore* there are remnants of the old planting in the Vettangudi forests. There are six trees of 1881, 16 of 1886 and 2 of 1887 with heights varying from 15 to 26 feet, 10 to 22 feet and 12¼ to 13¼ feet and girth from 11 inches to 2 feet 4 inches, 9 inches to 1 foot 3 inches and 7 inches to 1 foot, respectively.

In *Madurá*, *Mahogany* has done badly except in one instance where the trees for years have been given garden cultivation and frequently watered. In *Nilgiris* the *Mahogany* plants round the Benne Rest House are not doing well, many of them having been attacked by the borer, but those around the Mudumalai inspection quarters are flourishing. The plants put out in the Northern Hay Sandalwood plantation have also failed owing to excessive heat and drought. The 118 plants of *macrophylla* basketted last year have been planted in the Northern Hay Reserve; but barely 50 per cent. have succeeded. The *macrophylla* and *mahoganei* in the Kallar Nursery are looking well, their average height being 26 feet and 25½ feet and girth 12¾ inches and 7 inches respectively. The *Mahogany* plants at Kanoth, *North Malabar*, are reported to be healthy and growing well, the average height being 17 feet and girth 6½ inches. A few have however been attacked by a borer and appear sickly. A nursery was formed during the year at Chidlett and the seeds germinated and look healthy. In *South Malabar* the *macrophylla* tree in Chathambarai reserve measured 84 feet in height and 91 inches in girth at base, and 69 inches at 5 feet from the ground against 83 feet in height, 89 inches in girth at base and 67½ inches at 5 feet from the ground in the previous year. The tree is now 24 years old. The *mahoganei* trees planted in Iravellikava, Ramalore and Panangode are 15 years old. They are not doing well

account of the repeated attacks of borers. *Macrophylla* planted in Pokoti are doing fairly well. When grown pure the plants are rendered stagheaded from the repeated attacks of borers which destroy the terminal shoots; but when intermixed with teak they are generally overtopped by the teak and gradually die out. Sambur and deer too destroy a good number by barking the plants in spite of the fencing. The growth of the seven plants in compartment No. I of the Walayar reserve is very slow, their average height being 3 feet. Out of the 83 plants surviving at Dhoni in the beginning of the year 4 died and the remaining 79 are growing well. Their height ranges from 4 to 15 feet. 6 lbs. of *macrophylla* seeds were received in June 1896. They were distributed equally between the Amarampalam and the Nilambûr ranges. In *South Canara* there are about 200 plants from 1 to 3 feet high planted near Wandse depôt. They are 2 years old and doing fairly well. There are a few plants in the Puttur range house compound and although they are from 5 to 12 feet in height they all have an unhealthy appearance.

*Oak.*—The Australian oaks put out in avenues in compounds in *North Malabar* are doing extremely well.

*Peltophoriem ferrugineum.*—The 24 trees that remained in the Vettangudi reserve, *Tanjore district*, at the commencement of the year are flourishing. Their height and girth vary from 20 to 40 feet and 1½ to 4 feet respectively. There are 848 plants of this species in *South Arcot* ranging from 14 to 24 feet high.

*Pedocarpus elongatus.*—There are only 26 plants on the *Nilgiris*. They are of very poor growth. Their average height is 3 feet and girth 1½ inches.

*Pinus Pinea.*—These were planted in *Nilgiris*. They are of fair growth but slow. Their average height is 2 feet and girth 2 inches.

*Pinus Longifolia.*—The plants in the Ralli reserve in *Nilgiris* have been much harmed by rats which attack the roots, but those in the river reserve are of good growth. The plants obtained from Nilgiris and put down in Kodaikánal, *Madura district*, are growing well.

*Syncarpia Laurifolia.*—These are in *Nilgiris* and are of fair growth. The plants obtained from Nilgiris and planted in Kodaikánal, *Madura district*, are thriving well.

*Sterculia alata.*—Out of the 82 plants that remained in *South Malabar* at the beginning of the year, one was destroyed by sambur and the remaining 81 are flourishing.

### (d) *Exploitation of major forest produce.*

#### (1) Clear or regeneration fellings.

39. The *Acacia leucophlœa* area at Pesaravoye in *Kurnool* was clean felled as the land (70 acres) was required for cultivation under the canal. The result showed a profit which would have been larger but for the disregard of the subordinate in charge of the work to the orders issued to him. In *Nellore* the poorly-stocked casuarina plantations at Tummalapenta (100 acres) and Ramayapatam (60 acres) were clean felled. In *Kistna* and *Tanjore* the prescribed compartments in the casuarina plantations were cut over. In the latter 102 acres were felled and realized Rs. 4 per ton for billets and As. 12 per ton of branch wood. The system of leasing out bamboos in fixed areas continued during the year in *South Canara*. The Conservator of Forests, Southern Circle, remarks "that it is working well, but it is found necessary to fix a maximum number of bamboos to be cut on each area leased out." It is presumed also that the number of stems in each clump, which is not to be felled, has been prescribed.

#### (2) Selection fellings.

40. The chief departmental operations were the fellings of sâl in *Ganjám* and the felling in *Kurnool* of first and second class timbers for the supply of certain depôts. In *Bellary* crooked and badly grown teak trees were felled in the north-east and Donimalai ranges and realised a profit. In *North Arcot* bamboos were felled and supplied to the Ordnance Department for lance staves and tent poles. In *Salem* the right to cut and remove bamboos in eight blocks of the Javadis and Yellagiris was sold for Rs. 9,160, the contractors being bound to fell the bamboos on sylvicultural principles. Timber props were felled to meet the demand by the Kolar Gold Mining Company. In *Tinnevelly* 287 trees were marked and felled under departmental supervision and converted into scantlings and poles amounting in all to 11,014 cubic feet. The important species removed were *Hopea Wightiana* and *parviflora* and *Vitex altissima* and a few *Mesua ferrea*. In addition to this, 10,160 cubic feet of timber were removed by contractors from the ever-green forests under a system by which the trees felled had been marked by the departmental officers. In *South Malabar* selection fellings were carried on in four reserves and 137,205 cubic feet of timber worked out. The work was executed departmentally and by contract, the trees in the latter case having

been marked by Range-officers. Dead and uprooted trees in certain forests were also allowed to be cut and removed; 116 trees were felled in *South Canara* which yielded 160 logs. In *South Coimbatore* selection fellings as usual were undertaken in the Lower Anamalais. In *North* and *South Coimbatore* bamboo coupes were felled over. In the *Nilgiris*, Mudumalai range, rosewood and other trees were felled.

(3) Improvement fellings; (4) Coppice fellings and coppice with standard fellings.

41. In the *Northern Circle* improvement fellings were carried on in *Kistna*, *Bellary* and *Kurnool*. In *Kistna* the babul area was operated on in accordance with the working plan, and three coupes were felled in Mangrove forest. In *Bellary* in Bandur reserve two coupes of 200 acres each were opened for local supply. In Rayadrug a coupe of 200 acres was only partially felled over. In Hyrada reserve an area of 700 acres was sold for the manufacture of charcoal. In Ramandrug the eastern slopes were felled in accordance with sanctioned plan. The system in all these areas is coppice with standards. In the Chelama block in *Kurnool* 120 acres were subjected to improvement felling. The exact outturn could not be stated, as the inferior classes of trees were girdled and left standing. In *Vizagapatam* two small coupes in the Arlova and Madalammakonda reserves were experimentally cut as coppice with standards.

In the *Central Circle* in *Cuddapah* about 1,308 acres in various reserves were cut over as coppice under standards and the wood was supplied to the railway, departmentally. An attempt to open out coupes in various parts of the district for local requirements failed. The contractors did not meet the demands and the fellings were badly done. In *Nellore* compartment 2 and part of compartment 3 in Sriharikota were pollarded. A coupe of 515 acres in Mocherla Chelamcherla was sold to a contractor to be felled for coppice under standards. In *Chingleput* sample areas of one acre were marked in six reserves to ascertain their yield per acre before accepting offers from contractors. The average net profit per acre amounted to Rs. 6½. In *North Arcot* about the same area as last year was cut over for coppice under standards. In *South Arcot* badly grown trees and such as impeded the growth of their more valuable neighbours were removed in the Tenmalai reserved forest. The work extended over an area of 2 square miles. The total outturn was 2,133 cubic feet valued at Rupees 2,000. In addition several coupes were treated for coppice under standards in accordance with preliminary sanctioned schemes. In *Salem* six coupes covering an area of 2,050 acres were sold by auction. The average price per acre amounted to Rs. 9–10–2 as compared with Rs. 8–0–6 per acre in the preceding year. These were worked out on the principle of coppice with standards. Several other coupes were worked departmentally on a similar principle in connection with railway fuel and local supply. In *Trichinopoly* coupes in reserved forests of two ranges were sold and felled over for coppice. A coupe of 60 acres on the Vettangudi reserve, *Tanjore*, was also sold standing, the price realized being Rs. 440.

In the *Southern Circle* coupe fellings were carried on in *Tinnevelly* in sixteen localities to supply fuel to the adjoining inhabitants. They were worked by contract or by the department and the method adopted was coppice with standards. In *North Malabar* improvement fellings were undertaken in the Begur and Chedleth ranges. In *South Malabar* an area of 124 acres of reserved land (Tampurettipottai) was felled over by a contractor under coppice with standard system yielding a revenue of Rupees 15–8–0 per acre. In *South Canara* coppice fellings were carried on departmentally in Sabladi over 20 acres, the outturn being 2,040 cubic feet, the cost Rs. 415 and the revenue Rs. 357 with a balance in stock. Elsewhere contractors paid Rs. 3,227 for 269 acres and worked the whole very fairly. The average yield is estimated at 6 tons per acre. In *South Coimbatore* two coupes (74 acres in extent) in the Sholakarai reserve were felled. In *Madura* coppicing was undertaken in the Palamedu and Kanavayipatti ranges. In the *Nilgiris* five compartments in the Ootacamund range and six in the Coonoor range of the *Eucalyptus* plantations were felled.

(5) Unregulated fellings.

42. Little can be said under this. The system of felling and removal under cover of licenses, issued by village heads, &c., must be regarded generally as unregulated felling. It obtains still in many districts. With the elaboration of working plans

the issue of indiscriminate licenses will cease and to a very great extent in those districts where coupes have been opened, it has already been put a stop to.

(e) *Extraction and transport of major forest produce by land and water.*

43. Timber and fuel cut departmentally are stacked either inside or outside the forest limits. They are either sold there, in which case they are removed by purchasers in the same way as material sold standing is removed or they are removed to the centres of demand. The chief means of transport are carts, tramways, water or rail. When produce is extracted from portions of forests difficult of access it is dragged to the terminus of a road, tramway or the head of a timber slide by elephants. In *Gódávari* a quantity of timber is transported by river to Rajahmundry from Bastur State and the Nizam's Dominions. In *Kurnool* the timber for the Ernipad depôt is dragged over a rough and uneven track to the foot of the hills by bullocks and thence carted to the depôts. The smaller materials (spokes and felloes and agricultural implements) are rough-fashioned in the forest and brought to depôts on donkeys. Similar procedure is adopted for the Atmakúr depôt supply. In *Nellore* the cuttings of the coupes in Srîharikóta are brought down by the tramway to the banks of the Buckingham canal whence they are removed by contractors. The departmental cuttings of casuarina in Dugarazpatnam are brought down by boats for supply to hospitals. In *Tinnevelly* a wire rope was fixed at Courtallum some years back, but has been removed as no use has yet been found for it. On the Anamalais in *South Coimbatore* timber is brought down from the terminus of the tramway by a slide. It is under contemplation to reconstruct the slide so that it may be used in all weathers and enable a considerable saving to be effected in cost of transport. In *South Malabar* all timber and bamboos from the Nîlambúr and Amarampalam Ranges are dragged by elephants to the river banks whence they are tied into rafts and floated down the river to Calicut for sale. Floating is generally done between August and November owing to insufficiency of water during the dry season. The timber, &c., worked from the forests in the Palghat Range are dragged by elephants to the roadside and thence carted. Elephants are employed in dragging timber, &c., from six to eight months in the year, as they cannot be made to work during the hot season. In *South Canara* it is remarked that the exploitation of major produce includes either a long lead for carting or the use of rivers which are obstructed throughout their course until they reach near to tidal water where floating is already resorted to. The logs are dragged by Government elephants to the roadside and then handed to a contractor who carts them 40 odd miles to Panemangalore whence they are floated to Mangalore 16 miles distant. The carting and floating cost about As. 7 per cubic foot.

(f) *Exploitation of minor forest produce.*

(1) Extraction of fodder.

44. Grass is exploited from certainc losed forests. The operation is carried on either departmentally, or by issue of permits on payment of fees, or by the sale of the right tocut grass. A small experiment was tried in *Kistna*, but the grass was rendered unfit for sale, having fermented owing to improper stacking. In *Kurnool*, *Nellore* and *Anantapur* removal of fodder grass was allowed on permits in some reserves and about 50,703 head loads were thus removed in the latter district. In *Bellary* permits for cutting and removing grass at 3 pies per headload were issued. The standing grass in the closed portions of the Bellary and Mincheri reserves was sold by auction under the condition that no more than the seigniorage rate should be levied for the permits issued by the contractors. This realised a revenue of Rs. 1,246. 72,690 lbs. of hay were made departmentally and supplied to the Commissariat department. The revenue realised amounted to Rs. 582 against an expenditure of Rs. 442. Fodder grass was leased out in *Cuddapah*. In *South Arcot* coolies were induced to remove 6,253 head-loads in the Tiruvannámalai Range at 3 pies per headload for supply to the cattle brought for sale. The revenue realised was Rs. 98. In *Salem* the right of cutting and removing thatching grass in some of the Government topes was leased out for Rs. 48. In the *Southern Circle* the Conservator observes " there is nothing of interest to remark as regards fodder extraction beyond mentioning that the possibility of supplying hay to the Ootacamund settlement has been considered."

## (2) Grazing.

45. Compared with the previous year, there is an increase of Rs. 12,203 under this head, and, as observed in the last year's report, it is attributable to more efficient control and improvement in the methods of collecting grazing fees.

46. The subjoined statement shows the amounts realized in each district during the year under report as compared with the results of the previous year :—

| Districts. | Revenue from grazing fees, grazing contracts and sale of grass in | | Rates of grazing fees levied. |
|---|---|---|---|
| | 1894-95. | 1895-96. | |
| 1 | 2 | 3 | 4 |
| *Northern Circle.* | Rs. | Rs. | |
| Ganjám .. .. .. .. .. | 5,112 | 6,384 | Half the rates charged. |
| Vizagapatam .. .. .. .. .. | 1,508 | 1,514 | Do. do. |
| Gódávari .. .. .. .. .. | 2,155 | 3,271 | One-fourth rates charged in the Bhadráchalam Sub-division and half rates elsewhere. |
| Kistna .. .. .. .. .. .. | 90,144 | 76,596 | Full rates charged. |
| Kurnool .. .. .. .. .. | 18,253 | 17,962 | Half rates charged up to 31st March 1896 and three-quarter rates subsequently. |
| Bellary .. .. .. .. .. .. | 5,506 | 13,405 | Half rates charged except in the north-east range where 12 annas were charged for buffaloes and 8 annas for bulls and cows. |
| Anantapur .. .. .. .. .. | 4,903 | 5,615 | Half rates charged for nine months and three-fourth rates for three months. |
| Total .. | 1,27,581 | 1,24,747 | |
| *Central Circle.* | | | |
| Cuddapah .. .. .. .. .. | 17,868 | 41,244 | Full rates charged. Reduced to three-fourths in March 1896. |
| Nellore .. .. .. .. .. .. | 23,759 | 21,480 | Half rates charged. |
| Chingleput .. .. .. .. .. | 6,826 | 6,112 | Full rates charged for buffaloes and sheep. Three annas are charged for cows and bullocks. |
| North Arcot .. .. .. .. .. | 26,951 | 19,489 | Full rates charged for non-privileged and half rates for privileged cattle. |
| South Arcot .. .. .. .. .. | 25,792 | 26,482 | Local cattle, half rates ; rest full. |
| Salem .. .. .. .. .. .. | 24,164 | 36,719 | Varying rates. |
| Trichinopoly .. .. .. .. .. | 11,500 | 10,547 | Full rates charged. |
| Tanjore .. .. .. .. .. | 498 | 608 | Do. |
| Total .. | 1,37,358 | 1,62,681 | |
| *Southern Circle.* | | | |
| South Canara .. .. .. .. .. | 3,976 | 3,514 | Half rates charged. |
| North Malabar .. .. .. .. | 1,675 | 2,214 | Three annas on buffaloes and 2 annas on cows and bulls, &c. Three-fourth rates charged from 1st January 1896. |
| South Malabar .. .. .. .. | 215 | .. | .... |
| Nilgiris .. .. .. .. .. | 8,200 | 8,853 | Full rates on non-privileged cattle ; half rates on privileged cattle and (under special sanction), double the maxima on alien cattle. |
| North Coimbatore .. .. .. .. | 32,707 | 22,393 | Full rates charged except for privileged cattle. |
| South Coimbatore .. .. .. .. | 7,378 | 4,687 | Full rates charged up to 31st March 1896 and three-fourth rates subsequently. |
| Madura .. .. .. .. .. .. | 2,856 | 4,591 | Varying rates. |
| Tinnevelly .. .. .. .. .. | 6,347 | 6,816 | Half rates on privileged, full rates for non-privileged cattle. |
| Total .. | 63,354 | 53,068 | |
| Grand Total .. | 3,28,293 | 3,40,496 | |

There is a decrease in the *Northern* and *Southern Circles*, which is more than counterbalanced by a large increase in the *Central Circle* contributed mainly by the districts of *Cuddapah* and *Salem*. In the *Northern Circle*, the increase occurs mainly in *Bellary* and is the result of better arrangements for the issue of permits. There were increases also in *Ganjám* and *Gódávari*; in the former, it is attributed to the greater number of permits taken during the year, the cattle-owners having learnt that it is cheaper to pay grazing dues than run the risk of having their cattle impounded for grazing illicitly, and in the latter, to the opening during the year of some reserves and reserved lands in the Yernagúdem and Ellore ranges hitherto closed to grazing. There was a noticeable decrease in *Kistna* which is remarkable for the extent of pasture lands it contains. Although the grazing revenue of the district diminished as compared with last year from

Rs. 90,144 to Rs. 76,596 still even this represents 61 per cent. of the total receipts of the Circle under this head. The decrease is ascribed (1) to the abandonment of large areas previously treated as reserved lands, (2) to the refusal of some villagers to pay grazing fees under a mistaken impression that all areas would eventually be disforested, (3) to foreign cattle not having been driven to the upland taluks for want of rain, and (4) to frequent changes of range officers and inefficient control by temporary foresters.

In the *Central Circle*, the large increase of Rs. 23,376 in *Cuddapah* is ascribed to more efficient supervision and that of Rs. 12,555 in *Salem* chiefly to the levy of maxima rates in the two cattle-breeding ranges of Hosúr and Dharmapuri, and partly to the efficient supervision on the part of the Range establishments. The delay in the collection of fees by Tahsildars and the unfavourable condition of the past two seasons account for the decrease of Rs. 7,462 in *North Arcot*. In *Nellore* the abolition of the leasing and substitution of the grazing system in reserved forests resulted in a decrease of Rs. 2,279.

In the *Southern Circle*, the decrease occurred mainly in *North* and *South Coimbatore*. The large decrease of Rs. 10,314 in the former division was general in all the ranges, except Bhavání which contributed more than 50 per cent. (Rs. 6,000). No satisfactory explanation has been furnished for the large deficiency in that range but it is said to be probably due to smaller number of cattle having been driven up to the hills. In another range (Talamalai), the revenue fell short owing to the prevalence of foot and mouth disease among the cattle. In *South Coimbatore*, there was a decrease of Rupees 2,691 owing to the exclusion of all the reserved lands in the Palladam taluk from reservation and to the reduction of the rates of grazing fees to three-fourths of the maxima rates from 1st April 189-, but it was nearly made up by an increase in *Madura* due to more efficient control and supervision.

### (3) Miscellaneous Produce.

47. With few exceptions the collection of miscellaneous produce is not undertaken departmentally but by contractors under lease. The bark of *Cassia auriculata* is the principal item in the plain districts.

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## CHAPTER III.

### GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

48. The subjoined abstract shows the total yield under timber and other produce during the year as compared with the results of the previous year:—

ABSTRACT I.—Comparative yield as per Form No. 55.

| — | Timber (in cubic feet) including sandalwood. | | Fuel (in cubic feet). | | Bamboos (in numbers) | | Minor produce (gross value in rupees). | |
|---|---|---|---|---|---|---|---|---|
| | 1894–95. | 1895–96. | 1894–95. | 1895–96. | 1894–95. | 1895–96. | 1894–95. | 1895–96. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| By Government Agency .. | 374,152 | 423,476 | 2,186,122 | 2,897,561 | 36,881 | 57,067 | * 21,516 | 16,959 |
| By purchasers (including confiscations) .. .. | 2,364,873 | 2,409,066 | 9,839,061 | 10,829,705 | 29,716,807 | 33,611,403 | * 8,58,986 | * 10,60,371 |
| By free grants .. .. | 38,633 | 70,678 | 551 | 12,074 | 39,507 | 57,349 | 568 | 2,099 |
| By right holders .. .. | .. | 3,826 | .. | 45 | .. | .. | .. | 457 |
| Total .. | 2,777,658 | 2,907,046 | 12,025,784 | 13,739,385 | 29,793,195 | 33,725,819 | 8,81,070 | 10,79,886 |
| Increase or decrease in 1895–96 as compared with 1894–95 .. .. .. | .. | + 129,388 | .. | +1,713,651 | .. | +3,932,624 | .. | + 1,98,816 |
| Percentage of increase or decrease over the previous year's total .. .. | .. | + 4·6 | .. | + 14·2 | .. | + 13·2 | .. | + 22·6 |

* Includes grazing fees.

The result under all heads shows an increase and the causes thereof are explained below under the respective item.

*Section I.—Departmental Operations.*

49. The following abstract shows the produce collected and disposed of departmentally during 1894–95 and 1895–96 :—

| Produce collected. | During 1894–95. | | | During 1895–96. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Cost. | Average. | Quantity. | Cost. | Average. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. C. ft. | 374,103 | 61,083 | 0 2 8 | * 421,784 | 74,206 | 0 2 10 |
| Fuel .. .. ,, | 2,186,122 | 74,752 | 0 0 7 | † 2,904,126 | 1,02,065 | 0 0 7 |
| Bamboos .. No. | 36,881 | 805 | 0 0 4 | 57,067 | 1,389 | 0 0 5 |
| Sandalwood .. C. ft. | 3,049 | 3,218 | 1 0 11 | ‡ 2,711 | 2,855 | 1 0 10 |
| Minor produce .. Mds. | 52,690 | 13,743 | 0 4 2 | 64,420 | 8,217 | 0 2 0 |
| Total .. | .. | 1,53,601 | .. | .. | 1,88,732 | .. |

| Produce disposed of. | During 1894–95. | | | During 1895–96. | | | Stock on 1st July 1895. | Stock on 30th June 1896. |
|---|---|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | Quantity. § | Value. | Average. | | |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | |
| Timber .. C. ft. | 364,055 | 1,93,930 | 0 8 6 | 339,851 | 1,62,337 | 0 7 8 | 161,713 | 243,646 |
| Fuel .. .. ,, | 2,246,201 | 1,30,258 | 0 0 11 | 2,965,310 | 1,62,292 | 0 0 11 | 1,011,036 | 949,852 |
| Bamboos .. No. | 42,633 | 3,041 | 0 1 1 | 39,263 | 3,025 | 0 1 3 | 1,942 | 19,746 |
| Sandalwood .. C. ft. | 3,140 | 41,569 | 13 3 9 | 3,897 | 21,418 | 5 7 11 | 2,388 | 1,202 |
| Minor produce .. Mds. | 29,106 | 21,516 | 0 11 10 | 21,525 | 18,946 | 0 14 1 | 38,561 | 81,456 |
| Total .. | .. | 3,90,314 | .. | .. | 3,68,018 | .. | .. | .. |

* Includes 1,014 cubic feet found in excess of the original measurement, &c.

† Do. 6,565 do. do. do. do.

‡ Do. 5 do. do. do. do.

§ Do. that used departmentally, written off, loss by conversion, &c.

Taking the operations of the department as a whole, the quantity collected under all heads, except sandalwood, shows an increase; under "timber" chiefly in *Ganjám*, *Kistna*, *Bellary*, *North Malabar*, *South Malabar* and *Tinnevelly*. The increase in *Ganjám* was due to the Forest Department having to remove in accordance with the new rules all reserved trees on darkhast lands and to the felling of about 6,000 cubic feet of timber for supply to the Ordnance Department. The thinning operation carried on in coupe 1 of Gopuvanipalam in *Kistna* and the working of the eastern slopes of the Ramandrug Range in *Bellary* contributed to the increase in these districts. In *North Malabar* the supply of sleepers to the Madras Railway and in *South Malabar* selection fellings account for the increase. In *Tinnevelly* the increase is ascribed to increased demand. The decrease in *North Arcot* was due to absence of demand for casuarina poles, and in *South Coimbatore* to the discontinuance of the practice of felling and allowing the material to remain in the forests until transport became practicable. No explanation has been furnished for the decrease in *South Canara*.

Under "Fuel" there was a noteworthy increase in *Bellary*, *Cuddapah*, *North Arcot*, *South Arcot*, *Salem*, *Trichinopoly*, *Tanjore*, *Madura* and *Tinnevelly*. The increase in *Bellary* was due to causes explained under "Timber." There was a large demand for engine fuel in *Cuddapah* and *South Arcot* and also for casuarina poles in the latter district from the Jail Department. In *Salem* the increase is attributed to the working off of the arrears of the previous year's contract with the Madras Railway, besides fulfilment of a fresh contract made during the year for a monthly supply of 100 tons at Mallapuram. The increase in *Tanjore* is ascribed to a requisition from the Public Works Department in connection with the erection of the Collector's office buildings; in

*Madura* to a larger indent from the mills. In *Tinnevelly* the departmental working undertaken in a compartment of the Padarmalai block in the Mundanthorai working circle contributed to the increase. Collectors of *North Arcot* and *Trichinopoly* have not explained the increase in their districts. The districts of *South Canara*, *Nilgiris* and *South Coimbatore* showed a decrease in collection as compared with the figures of the previous year. The demand for fuel for sandal stills was slack in *South Canara*. In Nilgiris fellings were restricted as there was a large balance of the previous year's stock on hand and in *South Coimbatore* a portion of a coupe was not worked owing to the difficulty of disposing of what had been cut, on account of the heavy rains.

Under "Bamboos" there were large increases in some districts, counterbalanced by decreases in others. *Kurnool*, *North Arcot*, *Salem*, *North and South Coimbatore* contributed towards the increase, while *Vizagapatam*, *South Malabar* and *Madura* showed decreases. In *Kurnool* and *South Coimbatore* the increase has not been explained; in *North Arcot* and *Salem* it was due to an indent for lance staves and tent poles from the Ordnance Department and also in the latter district from the Hosúr Remount Depôt. A larger number was felled in *North Coimbatore* and brought down the Cauvery river from the Gopinatham forests of the Kollegal Range to Erode for sale in the latter place as an experimental measure. The decrease in *Vizagapatam* has not been explained. In *South Malabar* it is attributed to a smaller number of bamboos required to float down saplings and in *Madura* to the stoppage of departmental operations for want of workable bamboos.

Under "Minor produce" the increase occurs chiefly in *Vizagapatam* and was due to the collection of a larger quantity of Rella and Avuru grass. This accounts for the reduction in the average cost of collection under minor produce. There were decreases in *Bellary* and *Nellore*; the contractor for the supply of grass was unable to supply the stipulated quantity in the former district and in the latter weak demand for *strychnos nux vomica* seeds necessitated restriction of operations.

There was a falling off in the disposals of timber during the year. The decrease occurred principally in *North Arcot* and *North Malabar*. The explanation furnished under collection in these districts accounts for the variations. Although the collection in *North Malabar* was larger than in the previous year the quantity disposed of was less owing to the low rates offered for the wood.

The quantity disposed of under "Fuel" shows an increase which occurs mainly in *Kurnool*, *Bellary*, *Cuddapah*, *Nellore*, *North Arcot*, *South Arcot*, *Salem*, *Tanjore* and *Tinnevelly*. In *Kurnool* the increase was due to the supply of fuel to a cotton press at Nandyal, in *Bellary* and *Nellore* to better demand. In *Cuddapah* supply of engine fuel to the Madras Railway accounts for the increase, in *North Arcot* better prices were secured for coupes. In *South Arcot*, *Salem*, *Tanjore* and *Tinnevelly* the increase was due to causes already explained under collection.

Under "Bamboos" there was a falling off principally in *Vizagapatam*, *South Malabar* and *Madura* and an increase in *North Arcot*, *Salem*, *North and South Coimbatore*. The decrease in the first-named district and the increase in South Coimbatore have not been explained. The variations in the other districts both as regards decreases and increases are accounted for by the explanation given under collection. The quantity of "Sandalwood" disposed of shows an increase mainly in *Salem* where a large number of sandal trees was felled on the Chitteri hills.

Under "Minor produce" the quantity sold was less in *Bellary* and *Cuddapah*. In the former district it was due to causes explained under collection and in the latter to reduced collection.

The average rate of sale under timber shows a slight decrease due chiefly to the sale of a smaller quantity of valuable timber than in the previous year. The decrease in the average sale rate of sandalwood is only nominal, Rs. 10,970 appertaining to the sales in the year under report having been received in advance and credited in the previous year. The increase in the rate under minor produce is due chiefly to better prices secured for the *Sapindus emarginatus* seeds in Nellore and to more favourable rates obtained in other districts.

The cost of collection has not varied to any extent. Absence of information in the district reports prevents comparison in the case of "timber"; the increase under "bamboos" is due to more careful selection to meet the requirements of the Ordnance

Department. The reduction under minor produce is consequent upon better crops which facilitated collection and to increased supply of grass in the Vizagapatam district.

50. The subjoined abstract shows the quantity and value of timber and other produce removed by purchasers compared with the results of the preceding year :—

ABSTRACT K.—Produce removed by purchasers.

| | During 1894–95. | | | During 1895–96. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Amount of sales. | Average. | Quantity. | Amount of sales. | Average. |
| *Northern Circle.* | | RS. | RS. A. P. | | RS. | RS. A. P. |
| Timber .. .. .. C. ft. | 1,535,510 | 1,20,765 | 0 1 3 | 1,427,394 | 1,30,610 | 0 1 6 |
| Firewood .. .. .. „ | 3,154,872 | 65,748 | 0 0 4 | 3,260,124 | 73,378 | 0 0 4 |
| Bamboos .. .. .. No. | 18,881,294 | 82,483 | 0 0 1 | 19,819,703 | 92,290 | 0 0 1 |
| Grass and grazing .. .. .. | .. | 1,27,568 | .. | .. | 1,28,043 | .. |
| Minor produce .. .. .. | .. | 1,54,067 | .. | .. | 3,11,775 | .. |
| Total .. | .. | 5,50,631 | .. | .. | 7,36,096 | .. |
| *Central Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 613,835 | 55,270 | 0 1 5 | 784,368 | 78,167 | 0 1 7 |
| Firewood .. .. .. „ | 3,376,442 | 1,37,123 | 0 0 8 | 4,474,468 | 1,75,849 | 0 0 8 |
| Bamboos .. .. .. No. | 9,303,855 | 67,209 | 0 0 2 | 11,698,159 | 97,242 | 0 0 2 |
| Grass and grazing .. .. .. | .. | 1,39,047 | .. | .. | 1,60,475 | .. |
| Minor produce .. .. .. .. | .. | 2,90,928 | .. | .. | 2,88,858 | .. |
| Total .. | .. | 6,89,577 | .. | .. | 8,00,591 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 168,053 | 25,936 | 0 2 6 | 166,119 | 32,454 | 0 3 2 |
| Firewood .. .. .. „ | 3,281,737 | 78,792 | 0 0 5 | 3,076,333 | 81,654 | 0 0 5 |
| Bamboos .. .. .. No. | 1,319,408 | 21,135 | 0 0 3 | 2,038,050 | 22,126 | 0 0 2 |
| Grass and grazing .. .. .. | .. | 62,882 | .. | .. | 53,068 | .. |
| Minor produce .. .. .. .. | .. | 84,020 | .. | .. | 1,17,628 | .. |
| Total .. | .. | 2,72,765 | .. | .. | 3,06,930 | .. |
| Presidency Total. Timber .. .. C. ft. | 2,317,398 | 2,01,971 | 0 1 5 | 2,377,881 | 2,41,231 | 0 1 7 |
| Presidency Total. Firewood .. .. „ | 9,813,051 | 2,81,663 | 0 0 6 | 10,810,925 | 3,30,881 | 0 0 6 |
| Presidency Total. Bamboos .. .. No. | 29,504,557 | 1,70,827 | 0 0 1 | 33,555,912 | 2,11,658 | 0 0 |
| Presidency Total. Grass and grazing .. | .. | 3,29,497 | .. | .. | 3,41,586 | .. |
| Presidency Total. Minor produce .. | .. | 5,29,015 | .. | .. | 7,18,261 | .. |
| Grand Total of Sales .. | .. | 15,12,973 | .. | .. | 18,43,617 | .. |

The total value of removals in the year under report, as compared with that of the previous year, shows a net increase of Rs. 3,30,644 as shown in the margin. The increase occurs under all classes of produce. Under *timber* the increase occurs chiefly in *Ganjám*, *Kistna*, *Bellary*, *Cuddapah*, *Salem* and *South Malabar*. In all districts it is due to a great extent to the credit of the value of trees on unreserved lands to forests instead of to land revenue as previously, to leasing out larger areas for removal of wood in *Cuddapah* and to the lease of lands for coffee cultivation on the Shevaroys in *Salem*. In *South Malabar* the increase is attributed partly to the removal of Vella agil planks (*Chikrassia tabularis*)

| | RS. |
|---|---|
| Timber ... ... ... ... | + 39,260 |
| Fuel ... ... ... ... | + 49,218 |
| Bamboos ... ... ... | + 40,831 |
| Grass and grazing ... ... | + 12,089 |
| Minor produce ... ... ... | + 1,89,246 |
| Total ... | + 3,30,644 |

from the Chenat Nair reserve and partly to the removal of exploitable timber from the new Amarampalayam forests by contractors.

Under *Fuel* the increase is chiefly in *Gódávari*, *Nellore*, *North Arcot*, *South Arcot*, *Tanjore* and *South Canara*. The increase in *Gódávari* and *South Canara* has not been accounted for. In *Nellore* it was due to sale of a coupe in the Mocherla Chelamcherla reserved forest and to the sale of casuarina trees in the Tummalapenta and Ramayapatam plantations. In *North Arcot* and *Tanjore* better prices were realized for coupes.

Under *bamboos* there is increase in *Vizagapatam*, *Kurnool*, *North Arcot* and *Salem*. In *Kurnool* the increased sale was due partly to the increased strength of the patrolling establishment and to grant of permits to the Yerulars for a longer period and in *Salem* and *North Arcot* to better demand. No explanation has been furnished for the increase in *Vizagapatam*. The increase under grass and grazing is due to causes explained in paragraph 46 under "grazing."

Under *minor produce*, the increase occurs in all districts except *Gódávari*, *Kurnool*, *Cuddapah*, *Chingleput*, *North Arcot*, *South Arcot*, *Salem*, *Tanjore*, *North Malabar* and *Nilgiris*. In *Ganjám* the increase is due chiefly to leasing out the right to remove cassia fistula bark this year for the first time and in *Vizagapatam* to better method of auction which encouraged competition for Rella bark and Agency minor produce. In *Bellary* the lease of Tangedu bark in all taluks realized good prices owing to the change from the permit to the two years' lease system. In *Anantapur* there was larger realization from the sales of Tangedu bark and from the credit of date tree revenue to forests. In *Nellore* the removal of Tangedu (*Cassia auriculata*) and of mica and toddy rents contributed to the increase. In *Trichinopoly* the increase resulted from the removal of stones from a reserved forest by railway contractors, from the sale of babul pods in tank beds and from the revenue derived by the lease of a cocoanut, &c., tope handed over by the Public Works Department. In *South Canara* the rent of Neriya cardamom forests was credited to forests instead of to land revenue, as has been the case in previous years. In *South Malabar*, a large sum was obtained for the sale of the right to collect and remove Cheenikai (*Acacia concinna*) from the Chenat Nair reserve. In *South Coimbatore* the introduction of the lump sum contract system in Tunacadavu, Pollachi and Udamalpet ranges and the sale for the first time of the right to collect Vembadam and Avaram barks in reserved forests contributed towards the increase. In *Madura* the increase was due to better sales. The other districts, *i.e.*, *Kistna* and *North Coimbatore* have not explained the causes of increase.

51. The following statement shows the comparative cost of departmental and private working and the net profit derived under each system:—

| Items. | Measure. | Quantity sold. | Amount of sale-proceeds. | Charges. | | | Net profit or loss. | Rate of net profit (column 8 ÷ column 2) per measure in column 2. |
|---|---|---|---|---|---|---|---|---|
| | | | | A. Conservancy and Works. | B. Establishment and Contingencies. | Total. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Departmental Working— | | | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. A. P. |
| Timber .. .. .. | Cubic feet. | 339,851 | 1,62,337 | 74,206 | 34,065 | 1,08,271 | + 54,066 | + 0 2 7 |
| Fuel .. .. .. | Do. | 2,965,310 | 1,62,292 | 1,02,065 | 38,070 | 1,40,135 | + 22,157 | + 0 0 1 |
| Bamboos .. .. | Number. | 39,263 | 3,025 | 1,389 | 636 | 2,025 | + 1,000 | + 0 0 5 |
| Sandalwood .. .. | Cubic feet. | 3,897 | 21,418 | 2,855 | 3,495 | 6,350 | + 15,068 | + 3 13 10 |
| Minor produce .. | Maunds. | 21,525 | 18,946 | 8,217 | 3,912 | 12,129 | + 6,817 | + 0 5 1 |
| Private Working— | | | | | | | | |
| Timber .. .. .. | Cubic feet. | 2,377,881 | 2,41,231 | 11,768 | 36,423 | 48,191 | +1,93,040 | + 0 1 4 |
| Fuel .. .. .. | Do. | 10,810,925 | 3,30,881 | 16,142 | 49,974 | 66,116 | +2,64,765 | + 0 0 5 |
| Bamboos .. .. | Number. | 33,555,912 | 2,11,658 | 10,326 | 31,966 | 42,292 | +1,69,366 | + 0 0 1 |
| Grazing .. .. | .. | .. | 3,41,586 | 16,665 | 51,591 | 68,256 | +2,73,330 | .. |
| Minor produce .. | .. | .. | 7,18,261 | 35,040 | 1,08,481 | 1,43,521 | +5,74,740 | .. |

In the case of departmental working of timber, the rate of net profit exceeds that of private consumers due to extraction of superior quality of timber. Fuel on the contrary shows a loss. In *North Arcot* a quantity of fuel cut departmentally in the previous year had to be sold at a nominal rate. In order to meet local demands in *Salem* coupes were opened and the material disposed of at a cost barely sufficient

to cover felling charges. Such coupes are poorly stacked; it would be inadvisable to entrust the working to purchasers. Bamboos yielded a higher return from departmental working; the work was on a small scale and practically confined to indents from Government Depôts.

52. As far as advisable private working is being substituted for departmental. Though possibly more remunerative at the outset, the results in some instances would be the reverse. As an instance the Madras Railway fuel supply may be quoted. By leaving the supply entirely to middlemen increased revenue would be temporarily realized. The railway would have to pay higher rates and the effect would be to force it to substitute coal. In the interests of the ryots departmental working is often preferable. It is difficult, if not impossible, to ensure a middleman will sell produce at a rate within reach of the poorer class of ryot.

53. The sales of confiscated produce during the year under report as compared with those of the previous year are recorded in the subjoined abstract:—

ABSTRACT L.—Confiscation.

| | During 1894-95. | | | During 1895-96. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | Quantity. | Value. | Average. |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. .. C. ft. | 34,412 | 5,148 | 0 2 5 | 15,038 | 3,618 | 0 3 10 |
| Firewood .. .. .. ,, | 5,714 | 176 | 0 0 6 | 4,584 | 191 | 0 0 8 |
| Bamboos .. .. .. No. | 207,140 | 2,517 | 0 0 2 | 50,738 | 269 | 0 0 1 |
| Minor produce .. Money value. | .. | 57 | .. | .. | 315 | .. |
| Total .. | .. | 7,898 | .. | .. | 4,393 | .. |
| *Central Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 6,975 | 1,054 | 0 2 5 | 4,996 | 803 | 0 2 7 |
| Firewood .. .. .. ,, | 7,292 | 372 | 0 0 10 | 6,431 | 326 | 0 0 10 |
| Bamboos .. .. .. No. | 2,196 | 84 | 0 0 7 | 3,968 | 106 | 0 0 5 |
| Minor produce Money value. | .. | 118 | .. | .. | 114 | .. |
| Total .. | .. | 1,628 | .. | .. | 1,349 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 6,088 | 2,626 | 0 6 11 | 11,151 | 3,166 | 0 4 7 |
| Firewood .. .. .. ,, | 13,004 | 695 | 0 0 10 | 7,765 | 998 | 0 2 1 |
| Bamboos .. .. .. No. | 2,914 | 73 | 0 0 5 | 784 | 77 | 0 1 7 |
| Minor produce .. Money value. | .. | 299 | .. | .. | 95 | .. |
| Total .. | .. | 3,693 | .. | .. | 4,336 | .. |
| *Presidency Total.* | | | | | | |
| Timber .. .. .. C. ft. | 47,475 | 8,828 | 0 2 11 | 31,185 | 7,587 | 0 3 11 |
| Firewood .. .. .. ,, | 26,010 | 1,243 | 0 0 9 | 18,780 | 1,515 | 0 1 3 |
| Bamboos .. .. .. No. | 212,250 | 2,674 | 0 0 2 | 55,491 | 452 | 0 0 2 |
| Minor produce Money value. | .. | 474 | .. | .. | 524 | .. |
| Grand Total .. | .. | 13,219 | .. | .. | 10,078 | .. |

The total amount of sales shows a decrease of about Rs. 3,000 which calls for no remark.

54. Forms Nos. 55 and 56 shows the quantities of timber and other produce removed on free permits during the year under report.

During the hot weather several fires occurred in the districts of *Vizagapatam*, *Anantapur*, *Nellore*, *Chingleput*, *Trichinopoly*, *Salem*, *South Canara*, *North Coimbatore* and *Madura* and necessitated the free grant of building material, palmyra leaves, &c.

## CHAPTER IV.

### FINANCIAL RESULTS.

55. The following statement compares the revenue and expenditure in each circle for the forest year 1895-96 with the corresponding figures of the preceding twelve months:—

| Items. | Circles. | Forest year 1894–95 from 1st July 1894 to 30th June 1895. | Forest year 1895–96 from 1st July 1895 to 30th June 1896. |
|---|---|---|---|
| | | Rs. | Rs. |
| Revenue .. .. | Northern Circle .. .. | 6,09,343 | 7,23,859 |
| | Central do. .. .. | 7,97,546 | 9,39,733 |
| | Southern do. .. .. | 5,70,293 | 5,04,038 |
| | Total .. | 19,77,182 | 21,67,630 |
| *Expenditure.* | | | |
| A.—Conservancy and Works. | Northern Circle .. .. | 1,51,159 | 1,68,443 |
| | Central do. .. .. | 2,72,664 | 2,79,773 |
| | Southern do. .. .. | 2,85,779 | 2,64,609 |
| | Total .. | 7,09,602 | 7,12,825 |
| B.—Establishment .. | Northern Circle .. .. | 2,18,711 | 2,15,434 |
| | Central do. .. .. | 2,71,374 | 2,81,222 |
| | Southern do. .. .. | 2,54,611 | 2,59,507 |
| | Total .. | 7,44,696 | 7,56,163 |
| Total of Expenditure .. | Northern Circle .. .. | 3,69,870 | 3,83,877 |
| | Central do. .. .. | 5,44,038 | 5,60,995 |
| | Southern do. .. .. | 5,40,390 | 5,24,116 |
| | Total .. | 14,54,298 | 14,68,988 |
| Net result .. .. | Northern Circle .. .. | + 2,39,473 | + 3,39,982 |
| | Central do. .. .. | + 2,53,508 | + 3,78,738 |
| | Southern do. .. .. | + 29,903 | — 20,078 |
| | Total .. | + 5,22,884 | + 6,98,642 |

As in the present condition of affairs it is not possible to show separately the financial results of reserved forests, reserved and unreserved lands, these are presented in the form adopted in previous years.

The total receipts show an increase of Rs. 1,90,448 over those of the previous year. The increase is mainly due—

(1) to the higher prices realized generally for the leases of *Cassia auriculata;*

(2) to increased supply of fuel to the Madras Railway in *Salem*;

(3) to increased sales of timber and fuel in the *Nilgiris*;

(4) to a more active demand for casuarina and bamboos;

(5) to improved system of collection of grazing fees in *Cuddapah* and to the levy of maximum grazing rates in two taluks in *Salem*;

(6) to revenue obtained in *Bellary* and *Anantapur* for leases of right to tap date trees; and

(7) to the credit to "Forests" of revenue derived from tree growth upon land taken up for cultivation, which in the previous year was credited to "Land Revenue."

The variation in expenditure under "*A. Conservancy and Works*" is small. As in the case of receipts there was an increase in the *Northern* and *Central Circles* and a decrease in the *Southern Circle*. This is due to the extended departmental operations in *Ganjám*, *Vizagapatam*, *South Arcot* and *Salem*, to the entertainment of an increased patrolling establishment and to the outlay on the construction and repairs of certain buildings in *Kurnool*. The re-adjustment to Land Revenue of amounts erroneously credited to "Forests" in 1893–94 has also tended to the increase in *South Arcot*. The short expenditure in the *Southern Circle* is contributed by *Madura*, *Tinnevelly* and *South Canara* and is chiefly attributed to certain departmental operations and works not having been carried out as originally proposed, and also to the absence during the year of certain extra charges incurred in the two latter districts during the preceding year.

The increase under "*B. Establishments*" is due to the arrival of two new Assistant Conservators during the year; to the Assistant Conservator who arrived in 1894 having had to be paid for the full year, and to the re-organization of the District Forest office establishments.

The net surplus of the year amounts to Rs. 6,98,642 and is contributed by the *Northern* and *Central Circles*. Looking at individual districts, it is noted that *Salem* contributed 20 per cent., *Cuddapah* 19 per cent., *Kurnool*, *Bellary* and *North Arcot* each, 11 per cent. and *Anantapur* and *Nellore* each 10 per cent. towards the surplus.

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## CHAPTER V.

### Forest Administration.

56. *Important Administrative Changes—Credit of tree revenue.*—Previous to the year under report the orders in force regarding credit of revenue from trees on unreserved lands were, that only such revenue as was derived from produce over which the Forest Department exercised actual control, and not constructive control, should be credited to Forests, and that Collectors should declare that control should vest only in that department, which according to their judgment could most expediently exercise it. These orders were modified during the year, and it has been ruled that, except *porambokes* (*i.e.*, unassessed lands reserved for the general use of the community such as roads, tank-beds, &c.), and trees held on patta, control over all unreserved areas from which any appreciable forest produce is obtainable, should be exercised by the District Forest-officer as the Collector's Assistant and that in order to exercise that control it is not necessary that the lands be in charge of Forest Rangers or other Forest subordinates.

57. *Rules under the Forest Act.*—A set of model rules applicable to the whole Presidency under sections 35 and 36 of the Forest Act for regulating transit of timber has been finally sanctioned by Government, and Collectors have been requested to frame special rules for their districts, if necessary, on the model of these general rules. Rules for regulating transit of sandalwood in Salem were sanctioned during the year. Rules for the management of *kumaki* lands in *South Canara* and for the protection of game in reserved forests and reserved lands applicable to all the districts, except *Nilgiris*, were also revised and submitted to Government. They have since been sanctioned.

58. *Working of the Rules under Section 26 of the Forest Act.*—The Board is not in possession of any definite information as to how these rules worked in the several districts. In communicating the review of the Government of India on the Forest Administration Report for 1894–95, Collectors have been requested to report specially on the subject in their future Administration Reports. The Board is, however, aware that in certain districts there was some doubt as to the interpretation of the phrase *bona fide agricultural and domestic purposes* as used in rule 7. The Collector of *Kurnool* addressed the Board on the point and it was pointed out that a definition of general application could not be framed, and it was open to Collectors to decide for their districts or parts of districts what should be included under that term, according to the circumstances of the district. It was at the same time explained that wood taken for sugar-boiling and indigo manufacture ought to be treated as taken for a commercial and not for an agricultural purpose. The only remarkable instance in which the concessions allowed under rule 7 of the rules under section 26 of the Forest Act were grossly abused was in *Cuddapah*, where babul (*Acacia arabica*) trees were felled wholesale principally in the taluks of Jammalamadugu and Proddatur. In the plains of these taluks babul is the only tree found to any extent and to have included it in the classified list would have been tantamount to deprivation of the free use of wood for domestic or agricultural requirements. Early in July 1895, the Collector represented that the abuse of the concession had gone far beyond the possibility of prevention, and that it was necessary in the interests of the community to afford protection to the remaining trees by inclusion in the classified list. The proposal was accordingly sanctioned by Government. Subsequent events showed that some officials were implicated in the wanton destruction of the tree. A thorough and searching enquiry was made by the Collector, and a special report has been submitted to Government dealing fully with the whole question.

The Collectors of *Kistna* and *Anantapur* drew attention to the fact that under the provisions of section 7 of the new rules under section 26 of the Forest Act, it would be impossible satisfactorily to conserve classified trees on unreserved lands and suggested that further restrictions were necessary. The Board demurred to this, as it was the deliberate intention of Government to provide liberally for free use of the growth on unreserved lands by villagers for domestic or agricultural purposes, and in recommending the restriction of felling of classified trees, the Board went as far as the necessities of the case seemed to call for. Destruction of trees by cutting, &c., to an extent or in a manner not required for the reasonable exercise of the privileges conceded under rule 7, would be punishable as a breach of rule 9 or as mischief under the Indian Penal Code. Other Collectors also represented the difficulty of conserving particular species of trees on unreserved lands, and in these cases additional restrictions were considered unnecessary.

59. *Permanent and Temporary establishment.*—The strength of the controlling staff was unaltered. One Assistant Conservator Mr. Foulkes was promoted permanently to the grade of Deputy Conservator in the vacancy caused by Mr. Morgan's death. Mr. Marshall, extra Assistant Conservator, was permanently transferred to the Forest Department in Burma but was relieved only at the beginning of the current year. The scale of permanent subordinate forest establishment remained the same as in the previous year. The permanent office establishment in each circle is detailed below, as compared with that of the previous year. The sanction of the Government of India to the reorganization of the District Forest-officers' establishment was accorded towards the close of 1894–95. It was fully worked up to during the year under report :—

| | Northern Circle. | | Central Circle. | | Southern Circle. | |
|---|---|---|---|---|---|---|
| | 1894–95. | 1895–96. | 1894–95. | 1895–96. | 1894–95. | 1895–96. |
| Clerks .. .. .. .. | 23 | 35 | 46 | 55 | 47 | 54 |
| Peons .. .. .. .. .. | 73 | 71 | 75 | 69 | 66 | 58 |

The temporary establishment was increased in all circles.

60. *Coffee cultivation in reserved forests.*—To meet the wishes of planters Government agreed to lease parts of reserves on the Shevaroy Hills, *Salem* district, for coffee cultivation. Only areas, that do not contain valuable timber or which for other reasons it is not considered necessary to retain under forest, have been made available. In all some 3,300 acres have been granted upon lease. In the opinion, in which the Board concurs, of the Collector of the district and the Conservator, no further areas should be leased, at all events until all land already taken up has been planted and until the effects of the already granted leases have been ascertained.

Towards the close of the year applications were received for about 50 square miles of land on the Anamalais on both sides of the Coimbatore-Cochin watershed (*Coimbatore* district). Any clearings on the Coimbatore side were considered inadvisable as they would possibly affect important irrigation sources, but the applications for lands on the Cochin side which related to about 45 square miles were allowed, and the general question whether the lands should be granted or not was placed before the Board. The Board's Forest Member, in company with the Collector and the District Forest-officer, inspected the locality and in compliance with the instruction of Government detailed proposals were submitted after the close of the year. The final conditions of the leases under which the lands should be made over are still under the consideration of Government.

61. *Financial control of the Conservators and the appointment of the Conservator, Central Circle, as Joint Secretary to the Board of Revenue.*—The question of increasing the powers of Conservators and of appointing the Conservator of Forests, Central Circle, *ex-officio* Joint Forest Secretary, was under consideration and the final orders of Government were received only after the close of the year. The proposal for enlarging the powers and responsibilities of Conservators was approved, and the effect of it is the

restoration to Conservators of the power to sanction expenditure and the transfer from the Board to the Conservators of the responsibility of preparing the budgets for their respective circles. The proposal to constitute the Senior Conservator as *ex-officio* Joint Secretary was negatived on the ground that sufficient cause was not shown for the dislocation of the existing administrative machinery, but the Board has been allowed the option of selecting any one of the three Conservators to prepare the Administration Report instead of invariably selecting the Conservator of Forests, Central Circle, for that purpose.

62. *Tours of Forest Member.*—The Honourable Mr. J. Sturrock was the Forest Member of the Board of Revenue throughout the year. He inspected the districts of *Ganjám*, *Vizagapatam*, *Godávari*, *Kistna*, *Coimbatore* and *South Canara*, and conferred with the Collectors and District Forest-officers of those districts on forest matters. In August 1895, he visited Chittoor, *North Arcot* district, and reported as desired by Government on the accommodation available there for the office and residence of the District Forest-officer; and in the last week of June 1896, he proceeded to *Coimbatore* to arrange the conditions of leases for land proposed to be thrown open on the Anamalais for coffee cultivation.

63. *Conservators' Inspections.*—The following statement shows the name of Conservators who were in charge of the three circles during the year, the time spent by them in camp and the names of districts visited or inspected by them :—

| Circle. | Name of Conservator. | Number of days in charge. | Number of days spent in camp. | Districts visited. | Districts for which inspection notes were submitted to Board. | District Forest-offices inspected. |
|---|---|---|---|---|---|---|
| Northern .. | Mr. E. D. M. Hooper.. | 112 | 63 | Ganjám and Kistna. | Bellary .. | .... |
| | „ A. W. Peet .. | 254 | 121 | .... | (*b*) Gódávari and Kurnool. | .... |
| Central .. | „ E. P. Popert .. | 366 | (*a*) 209 | Nellore, Cuddapah, Chingleput, South Arcot, Tanjore, Trichinopoly and Salem. | .... | Tanjore, South Arcot Trichinopoly, Cuddapah and Salem. |
| Southern .. | „ J. W. Cherry .. | 52 | 11 | Nilgiris .. .. | .... | .... |
| | „ H. A. Gass .. | 65 | 47 | .... | Madura .. | .... |
| | „ E. D. M. Hooper .. | 249 | 230 | Madura, Coimbatore and Malabar. | Tinnevelly and (*b*) Nilgiris. | Tinnevelly. |

(*a*) Includes 19 days spent in *Coimbatore* and *Nilgiris* in connection with the inspection of the Nilgiri Plantations, and 26 days at the Forest School, Dehra Dun.
(*b*) Detailed inspection notes have not yet been received in the Board's office.

Mr. Peet was in charge of the *Vizagapatam* district from 12th to 30th June 1896, and Mr. Hooper of *Madura* and the *Nilgiri* districts from 23rd December 1895 to 16th February 1896 and 25th to 30th June 1896, respectively, during the absence of the District Forest-officers on privilege leave.

64. *Touring of District Forest-officers.*—All District Forest-officers except *Nellore*, *Chingleput*, *Nilgiris*, *North Coimbatore* and *South Canara*, spent more than half the year in camp. In the first-named three districts owing to illness the District Forest-officers were unable (by a few days only) to complete the six months prescribed touring. The District Forest-officer, *North Coimbatore*, was only 151 days in camp, as important cases of sandalwood thefts detained him at head-quarters. Mr. Foulkes was in charge of *South Canara* for 70 days at the beginning of the year, but did no touring owing to the rainy season. Mr. Battie who succeeded him spent only 129 days in camp out of the 296 days he held charge of the district.

65. *Inspection of Range offices by District Forest-officers.*—With very few exceptions, all Range offices were inspected twice during the year by the respective District Forest-officers. This is a great improvement upon last year.

66. *Audit of the accounts of the District Forest-office.*—The accounts of all District Forest-offices, except *North Arcot* and *Nilgiris*, were audited during the year by the Local Fund Inspecting staff of the Accountant-General's office.

67. *Re-organization of the Subordinate Staff.*—The re-organization of the District Forest-office establishments sanctioned at the close of the last year was introduced during the year.

As regards the subordinate executive staff which has been under consideration since the beginning of 1891, Government during the preceding year called for a report as to the possible reductions consequent upon the abolition of reserves under one square mile. As premised in last annual report no material reduction is possible. The extent of forest reserves, on the basis of which the scheme was originally prepared, is some 2,000 square miles less than the latest estimate. It has been repeatedly urged that with the present establishment it is impossible to adequately protect the annually increasing area of reserved forests, and that important works have to be postponed and progress is generally impeded owing to lack of adequate establishment. There is yet another point, the prolonged delay in promotion has generally discouraged the whole subordinate service and it does not, and cannot be expected to take a keen interest in its work. Government has again recently been addressed upon this subject and it is hoped that early sanction will be accorded to the introduction of the long-pending re-organization scheme.

68. *Forest School.*—Only three officers—one from the *Northern* and two from the *Southern Circle*—were deputed in 1896 to undergo training at the Forest School. One of the trained men in the Southern Circle was appointed on probation as Extra Assistant Conservator in Burma. One during the year, and four others subsequently have been permitted to apply for appointments in Burma or elsewhere. In the case of men who have not completed five years' service, the permission has been granted on the condition that a portion of the cost of their training be refunded either by the Local Government to which transferred, or by themselves. The increasing number of applications for transfer to other provinces is the natural consequence of the prolonged delay in promotion.

69. *Conduct and work of the Establishment.*—Both conduct and work of the subordinate executive staff are capable of improvement. In the *Northern Circle* a Forester in *Gódávari* was reduced, and a Ranger in *Kurnool* stood charged at the end of the year with abetting and aiding theft of forest produce. In the *Central Circle*, three Rangers —one in *North Arcot* and two in *Salem*—were reduced, the reduction in the case of one of the officers being only temporary. A Forester in *Salem* was also dismissed. In the *Southern Circle*, two Foresters—one in each of the districts of *Madura* and *Tinnevelly*—were dismissed, and the services of a third in *North Coimbatore* were dispensed with for neglect of duty.

The conduct of the protective staff was, as usual, far from satisfactory. Several guards and watchers, &c., were convicted of extortion, and some of criminal misappropriation. Some had also to be removed for misconduct and gross neglect of duty. A forest guard in *Vizagapatam* was reported to have been murdered in the execution of his duty, but the accused were acquitted by the Sessions Judge.

70. *Health of the Establishment.*—On the whole, there seems to be an improvement over last year. The districts of *Ganjám*, *Vizagapatam* and the Agency portion of the *Gódávari* district in the *Northern Circle* continued to be unhealthy. In the *Central Circle* the health of the establishment in *Cuddapah* and in the Pachamalais of the *Trichinopoly* district was bad. In the *Southern Circle* the year was unhealthy in *South Coimbatore*, *North* and *South Malabar*, and notoriously so in *Nilgiris*. The Collector of the last-named district writes: "The year has been an exceptionally sick one. It is the third in succession marked by an unusually prolonged dry weather before the south-west monsoon, and whether this unseasonable weather has been the cause or one of the chief causes or not, the fact remains that the establishment suffered from illness."

71. *Service Books.*—The Board notes with satisfaction that service books have been duly maintained and verified in all districts. It is, however, noted that in *South Arcot* they were verified only up to 30th September 1895, in *Madura* up to end of 1895, and in *Vizagapatam*, *Bellary* and *South Canara* up to the end of March 1896. The Collectors of these districts have been requested to see that they are brought up to date, *i.e.*, Forest year.

72. *Inventory of valuable Stock.*—Stock registers are reported to have been kept and verified in all the districts except *Gódávari*, *Nellore*, *Tanjore*, *Trichinopoly*, *Madura* and *Nilgiris*. In *Gódávari*, steps are being taken to open a register. In *Madura*, it is said to be not balanced and closed annually. For the remaining districts no information is furnished by the Collectors.

73. *Elephants.*—The elephant attached to the *Vizagapatam* district died, and arrangement has been made to supply one in its place from the *Southern Circle*. Seventeen elephants were captured during the year—sixteen in *North Malabar* and one in *South Malabar*. Of the sixteen in *North Malabar*, one had to be shot in the kraal on account of internal injuries sustained, and another sold. Several of the new captures were reported to be young, and Government has recently decided that such animals should be sold. The number of elephants borne on the strength of the department is 70 as per Form No. 63.

74. *Rain-gauge.*—Rain-gauge readings are reported to have been properly recorded in *Vizagapatam*, *Gódávari*, *Kistna*, *Kurnool*, *South Arcot*, *Tinnevelly*, *North Coimbatore*, *South Coimbatore*, *North Malabar* and *South Canara*.

75. *Mica.*—Mining for this mineral may be said to have commenced in the *Nellore* district in 1887; the work was carried on in a desultory way until 1890. That year, owing to the successful results obtained from one mine which had been worked since 1888, numerous plots were purchased for mining at fancy prices; many of these were abandoned as unprofitable. In 1890 as the result of inspection of the mica mines by Dr. Warth, a suggestion was made to impose a royalty upon mica exported from Madras. It was, however, resolved to await further development of the industry. The work languished until 1895. In the year under report the applications for mining leases rose to 270 and operations, which hitherto had been confined to the Rapur taluk, extended generally to other taluks. The levy of a royalty upon the outturn is again under consideration.

76. *The Iron industry in the Salem District.*—The possibility of resuscitating this industry attracted the attention of His Excellency Lord Wenlock in 1893, and various reports have since been furnished upon the subject. In July 1895 the information collected was placed at the disposal of the various Chambers of Commerce and others, and the correspondence on the subject was communicated to the Secretary of State. It was suggested that the opinions of an expert versed in the Styrian and American iron-working should be obtained as to whether the papers disclosed conditions, which would make it possible to conduct a similar industry on similar lines in Salem. The Secretary to the Imperial Institute was also addressed. Towards the close of the year information was received that Mr. J. Head, a past President of the Institution of Mechanical Engineers, and a well-known metallurgist and ironmaker, had been asked for a report and an opinion. There is little doubt about the quantity and quality of iron ore obtainable. The main difficulty is the supply of charcoal or coke fuel. The cost of the latter is at present prohibitory, and with regard to the former it has to be ascertained whether a sustained supply in sufficiently large quantities and at a comparatively low rate can be furnished so as to compete with the imports from Europe. The subject is still under investigation.

77. *Madgole Estate.*—In June 1895 the Agent to the Governor, Vizagapatam, submitted an application under section 32 (*a*) of the Forest Act from the Senior Rani of the Madgole Zemindari to have her estate forests managed by Government on certain terms for a period of ten years. The Agent strongly supported the application, as among other reasons such a step would prevent smuggling in the adjoining Government forests, and secure control over the zemindari forests in which two important rivers rise that irrigate Government lands in the south of the district. The Board was of opinion that it would be sufficient for the present if the lands were managed by means of rules framed under section 26 of the Act and accordingly submitted proposals to Government during the year. Pending sanction of Government, the management of the forests was allowed to be undertaken by the Forest-officer on behalf of the Rani. Owing to the delay in applying the Forest Act, offenders had to be prosecuted under the Indian Penal Code for mischief or theft. This rendered it difficult to secure conviction. The system of removing forest produce under cover of permits was resented by the public who were hitherto removing it as they liked on the *cowle* system, but a

few convictions in courts, resulting in heavy punishments to the offenders are reported to have improved matters. The main difficulty appears to consist in the title to the forest, and the Conservator, Northern Circle, remarks that "a serious claim has been sent in during the last few days to part of the forests on a mortgage. The extent of forest involved and the genuineness of the claim have not yet been settled." There was no fire-protection undertaken during the year, and grazing was allowed to all animals in all the forests on permits issued at half Government rates. Roads are badly required. On the ghâts it seems desirable that a new alignment should be made, and if the District Forest-officer or the Ranger cannot do this, the work will have to be done by an Engineer. The produce extracted departmentally and otherwise during the year amounted to 207,737 cubic feet of timber (including a free grant of 139 cubic feet), 335,751 cubic feet fuel, 3,178,890 bamboos (including a free grant of 200) and Rs. 1,880 worth of minor produce. The total receipts of the year under all heads amounted to Rs. 8,739–10–10, and the expenditure to Rs. 2,015. Deducting Rs. 376 due to Government for sale of permits, the net revenue due to the Rani amounts to Rs. 6,350.

78. *Work done by superior officers.*—The opinions of the Conservators are as follow :—

*Central Circle.*—Mr. Popert, the Conservator, says :—

"The Conservator desires to record his appreciation of the efforts of all gazetted officers in the circle. All have done their best. Mr. Brasier's management of the exceedingly heavy Salem district deserves perhaps special mention. The completion of selection and preparation of rough working plans for all reserves in the plains of the Trichinopoly district by Mr. Porter are very creditable."

*Northern Circle.*—Mr. Peet, the Conservator, says :—

"The work of all the District Forest-officers has been good throughout the year, though complete efficiency has been interfered with in some cases by illness. Of the officers in charge for considerable portion of the year, the highest praise for general efficiency must be awarded to Mr. Lodge in Kurnool and Mr. Lushington in Kistna. The Collector of Bellary has spoken well also of Mr. Eber-Hardie's activity in Bellary. The revenue from Anantapur under Mr. Murray was exceptionally high for that district.

"Of the officers in charge of sub-division, during the year, Collectors report well on Mr. O'Leary, Assistant Conservator, who held charge for some time of a sub-division in Kistna and of Mr. Cox, Assistant Conservator, who held various charges during the year, of Mr. Ward, who held the important and malarious sub-division of Bhadráchalam in Gódávari, and of Mr. Hearsay, who showed great activity in Kurnool.

"Mr. Ward's influence over the semi-wild tribes in his sub-division is quite unique."

*Southern Circle.*—Mr. Hooper, the Acting Conservator, says :—

"All Collectors, I understand, are satisfied with the working of their District Forest-officers, and so far as the Acting Conservator has power of judging they deserve praise for their work; to Mr. Douglas and Mr. Bryant his special thanks are due for cordial co-operation afforded."

# APPENDIX A.

## Forest Settlement.

### Particulars of balance of lands under settlement.

| District. | Total number and area of blocks brought under settlement up to end of 1895–96. | | Total number and area of blocks constituted finally as reserved forests up to end of 1895–96. | | Balance at end of 1895–96. | |
|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Northern Circle.* | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| Ganjám .. .. .. .. .. | 71<br>*a*+ 2<br>*b*— 21<br>*c*— 7 | 582<br>*b*— 20<br>*c*— 3 | 18<br>*c*— 7 | 136<br>*c*— 3 | 34 | 426 |
| Vizagapatam .. .. .. .. | 27<br>*a*+ 1 | 303<br>*d*— 2 | 21 | 87 | 7 | 214 |
| Gódávari .. .. .. .. | 77<br>*a*+ 1 | 1,001<br>*d*— 26 | 66 | 634 | 12 | 341 |
| Kistna .. .. .. .. .. | 144<br>*b*— 3 | 806<br>*b*— 2<br>*d*— 1<br>*a*— 12 | 92 | 653<br>*a* — 12 | 49 | 150 |
| Kurnool .. .. .. .. | 47<br>*b*— 1 | 2,098<br>*a*+ 10<br>*b*— 3<br>*d*— 3 | 21 | 1,748 | 25 | 354 |
| Bellary .. .. .. .. | 132<br>*b*— 7 | 496<br>*b*— 6<br>*d*— 2 | 118 | 449<br>*a*+ 3 | 7 | 39 |
| Anantapur .. .. .. .. | 83<br>*b*— 3<br>*a*+ 2 | 522<br>*b*— 4<br>*d*— 1 | 68 | 440 | 14 | 77 |
| Total .. | 445 | 5,736 | 397 | 4,135 | 148 | 1,601 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. | 166 | 2,212<br>*a*— 17 | 137 | 1,535 | 29 | 660 |
| Nellore .. .. .. .. .. | 168<br>*b*— 7 | 659<br>*a*+ 6<br>*b*— 3<br>*d*— 13 | 137 | 436 | 24 | 213 |
| Chingleput .. .. .. .. | 219<br>*a*+ 5<br>*b*— 7 | 228<br>*b*— 4 | 177 | 200 | 40 | 24 |
| North Arcot .. .. .. .. | 147<br>*b*— 4 | 1,109<br>*b*— 3<br>*d*— 1<br>*c*— 3 | 120 | 998<br>*c*— 3 | 23 | 107 |
| South Arcot .. .. .. .. | 216<br>*b*— 11 | 859<br>*b*— 5<br>*a*— 48<br>*d*— 34 | 151 | 550<br>*a*— 45 | 54 | 267 |
| Salem .. .. .. .. .. | 174 | 1,343<br>*a*+ 39<br>*c*— 1 | 141 | 1,186<br>*a*+ 39<br>*c*— 1 | 38 | 157 |
| Trichinopoly .. .. .. .. | 82<br>*b*— 6<br>*a*— 1 | 198<br>*b*— 4 | 74 | 192 | 1 | 2 |
| Tanjore .. .. .. .. .. | 21 | 19 | 21 | 19 | .. | .. |
| Total .. | 1,162 | 6,536 | 958 | 5,106 | 204 | 1,430 |

# APPENDIX A.

## Forest Settlement—*cont.*

### Particulars of balance of lands under settl

| District. | Total number and area of blocks brought under settlement up to end of 1895-96. | | Total number and area of blocks constituted finally as reserved forests up to end of 1895-96. | | Balance at end of 1895-96. | |
|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Southern Circle.* | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | |
| South Canara .. .. .. .. | 83<br>*b*— 3 | 553<br>*b*— 1<br>*a*— 3 | 27 | 114 | 53 | 435 |
| North Malabar .. .. .. .. | 23<br>*a*+ 2<br>*b*— 3 | 277<br>*a*— 2<br>*b*— 4<br>*c*— 1 | 16 | 158<br>*c*— 1 | 6 | 113 |
| South Malabar .. .. .. .. | 28<br>*b*— 1 | 300<br>*a*— 1 | 6 | 39 | 21 | 260 |
| Nilgiris .. .. .. .. .. | 183<br>*a*+ 60 | 358 | 147<br>*a*+ 62 | 357 | 34 | 1 |
| North Coimbatore .. .. .. | 80 | 1,651 | 59 | 859 | 21 | 792 |
| South Coimbatore .. .. .. | 14<br>*a*+ 4 | 573<br>*a*+ 84 | 10<br>*a*+ 4 | 566<br>*a*+ 85 | 4 | 6 |
| Madura .. .. .. .. | 182<br>*b*— 3 | 639<br>*b*— 3<br>*a*+ 1 | 146 | 559 | 33 | 78 |
| Tinnevelly .. .. .. .. | 73<br>*b*— 16<br>*a*— 1 | 440<br>*a*— 8<br>*b*— 4 | 39 | 411 | 17 | 17 |
| Total .. | 705 | 4,849 | 516 | 3,147 | 189 | 1,702 |
| Grand Total .. | 2,412 | 17,121 | 1,812<br>*a*+ 66<br>*c*— 7 | 12,388 | 541 | 4,733 |

*a*. Rectification. *b*. Initial notifications cancelled. *c*. Disforested. *d*. At settlement.

# APPENDIX A.

## Forest Settlement—*cont.*

### Particulars of balance of lands under settlement—*cont.*

| District. | Classification of balance in columns 6 and 7. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Settled and reported on. | | | | | | | | Settled, but not reported on. | | Settlement proceeding. | |
| | Notified under section 16 during 1895–96, but reservation effected only after 30th June 1896. | | With Board or Government awaiting publication of notification under section 16. | | Returned by the Board for revision and remaining either with Collector, District Forest-officer or Settlement-officer. | | Total settled and reported on. | | | | | |
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | | SQ.MLS. | | SQ.MLS. | | SQ. MLS. |
| Ganjám .. .. | .. | .. | 8 | 37 | 13 | 299 | 21 | 336 | 12 | 84 | 1 | 6 |
| Vizagapatam .. .. | .. | .. | 2 | 49 | .. | .. | 2 | 49 | .. | .. | 5 | 165 |
| Gódávari .. .. | 1 | 168 | 3 | 53 | .. | .. | 4 | 221 | 4 | 74 | 4 | 46 |
| Kistna .. .. .. | 4 | 11 | 13 | 16 | .. | .. | 17 | 27 | .. | .. | 32 | 123 |
| Kurnool .. .. | .. | .. | 3 | 19 | .. | .. | 3 | 19 | 4 | 56 | 18 | 279 |
| Bellary .. .. | .. | .. | 2 | 11 | .. | .. | 2 | 11 | 1 | 16 | 4 | 12 |
| Anantapur .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 14 | 12 | 63 |
| Total .. | 5 | 179 | 31 | 185 | 13 | 299 | 49 | 663 | 23 | 244 | 76 | 694 |
| *Central Circle.* | | | | | | | | | | | | |
| Cuddapah .. .. | .. | .. | 7 | 50 | 5 | 240 | 12 | 290 | .. | .. | 17 | 370 |
| Nellore .. .. .. | 2 | 96 | 7 | 51 | 2 | 6 | 11 | 153 | .. | .. | 13 | 60 |
| Chingleput .. .. | 2 | 3 | 12 | 8 | .. | .. | 14 | 11 | 11 | 8 | 15 | 5 |
| North Arcot .. .. | 2 | 10 | 3 | 15 | 7 | 26 | 12 | 51 | .. | .. | 11 | 56 |
| South Arcot .. .. | 1 | 3 | 11 | 158 | 2 | 10 | 14 | 171 | 34 | 84 | 6 | 12 |
| Salem .. .. .. | .. | .. | 9 | 42 | 3 | 7 | 12 | 49 | .. | .. | 21 | 108 |
| Trichinopoly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | .. | .. |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 7 | 112 | 49 | 324 | 19 | 289 | 75 | 725 | 46 | 94 | 83 | 611 |
| *Southern Circle.* | | | | | | | | | | | | |
| Canara .. .. | 4 | 11 | 4 | 3 | .. | .. | 8 | 14 | 1 | 20 | 44 | 401 |
| North Malabar .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | 111 | 2 | 2 |
| South Malabar .. | .. | .. | 1 | .. | .. | .. | 1 | .. | 20 | 260 | .. | .. |
| Nilgiris .. .. | .. | .. | .. | .. | 33 | 1 | 33 | 1 | .. | .. | 1 | .. |
| North Coimbatore .. | .. | .. | 7 | 318 | 1 | 212 | 8 | 530 | 2 | 1 | 11 | 261 |
| South Coimbatore .. | 1 | 1 | 2 | 2 | .. | .. | 3 | 3 | .. | .. | 1 | 3 |
| Madura .. .. .. | 4 | 8 | 14 | 20 | 4 | 19 | 22 | 47 | .. | .. | 11 | 31 |
| Tinnevelly .. .. | .. | .. | 9 | 3 | .. | .. | 9 | 3 | 1 | 2 | 7 | 12 |
| Total .. | 9 | 20 | 37 | 346 | 38 | 232 | 84 | 598 | 28 | 394 | 77 | 710 |
| Grand Total .. | 21 | 311 | 117 | 855 | 70 | 820 | 208 | 1,986 | 97 | 732 | 236 | 2,015 |

# APPENDIX A.

## Forest Settlement—*cont.*

### Particulars of balance of lands under settlement—*cont.*

| District. | Of lands notified under section 4 in the year. | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1883–84. | | 1884–85. | | 1885–86. | | 1886–87. | | 1887–88. | | 1888–89. | | 1889–90. | | 1890–91. | | 1891–92. | | 1892–93. | | 1893–94. | | 1894–95. | | 1895–96. | |
| | Number. | Area. | Number. | Area. | Number | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| *Northern Circle.* | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. | | S. M. |
| Ganjám .. | .. | .. | 21 | 376 | 3 | *22 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 5 | 16 | 1 | 1 | 2 | 3 | 1 | 6 |
| Vizagapatam .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 36 | 3 | *178 | .. | .. | 2 | .. | .. | .. |
| Gódávari .. | .. | .. | .. | .. | 1 | 168 | .. | .. | 1 | 16 | .. | .. | 9 | 124 | 1 | 33 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | * 4 | 24 | .. | .. | * 1 | *13 | 16 | 29 | 8 | 34 | 13 | 39 | 7 | 11 |
| Kurnool .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | *22 | .. | .. | .. | .. | .. | .. | * 9 | *123 | 3 | 20 | 4 | 33 | 7 | *155 | 1 | 1 |
| Bellary .. .. | .. | .. | 2 | 11 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 16 | 4 | 1 |
| Anantapur .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 11 | 66 | 2 | 9 |
| Total .. | .. | .. | 23 | 387 | 4 | 190 | .. | .. | 2 | 38 | .. | .. | 13 | 148 | 1 | 33 | 13 | 174 | 27 | 243 | 14 | 70 | 36 | 279 | 15 | 39 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cuddapah .. | * 1 | *137 | .. | .. | .. | .. | 1 | 18 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 68 | 6 | 45 | 16 | 260 | 4 | 132 |
| Nellore .. .. | * 2 | * 46 | 1 | *94 | .. | .. | . | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 3 | 12 | 45 | 7 | 25 |
| Chingleput .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | * 1 | .. | * 2 | 1 | * 3 | 3 | * 3 | * 5 | 17 | 9 | 7 | * 3 | † 7 | 3 |
| North Arcot .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 3 | 12 | 63 | 6 | 22 | 4 | |
| South Arcot .. | .. | .. | * 2 | *28 | 1 | 4 | .. | .. | .. | .. | 1 | * 3 | * 1 | *22 | 1 | 75 | *17 | * 79 | 3 | 2 | 13 | 20 | *12 | * 24 | 3 | 10 |
| Salem .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 3 | .. | .. | .. | .. | .. | .. | 3 | 14 | 14 | 55 | 15 | 85 |
| Trichinopoly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | .. | .. |
| Tanjore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 3 | 183 | 3 | 122 | 1 | 4 | 1 | 18 | .. | .. | 1 | 3 | 3 | 25 | 3 | 76 | 20 | 82 | 8 | 78 | 53 | 154 | 68 | 411 | 40 | 274 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Canara .. | .. | .. | .. | .. | 1 | *20 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 31 | 85 | 12 | *215 | 9 | 115 |
| North Malabar .. | .. | .. | 2 | *69 | 1 | 40 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | * 2 | 1 | 2 | 1 | .. |
| South Malabar .. | .. | .. | .. | .. | .. | .. | .. | .. | 12 | 19 | 5 | 240 | .. | .. | .. | .. | .. | .. | .. | .. | 4 | 1 | .. | .. | .. | .. |
| Nilgiris .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 33 | 1 | 1 | .. |
| North Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 280 | .. | .. | .. | .. | 2 | 458 | .. | .. | .. | .. | 6 | 37 | 12 | 17 | .. | .. |
| South Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | * 3 | .. | .. | .. | .. | 1 | 3 |
| Madura .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | *28 | * 73 | 3 | 2 | 2 | 3 | .. | .. | .. | .. |
| Tinnevelly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 6 | ‡ 9 | 11 |
| Total .. | .. | .. | 2 | 69 | 2 | 60 | .. | .. | 13 | 299 | 5 | 240 | .. | .. | 2 | 458 | 28 | 73 | 6 | 5 | 44 | 128 | 66 | 241 | 21 | 129 |
| Grand Total .. | 3 | 183 | 28 | 578 | 7 | 254 | 1 | 18 | 15 | 337 | 6 | 243 | 16 | 173 | 6 | 567 | 61 | 329 | 41 | 326 | 111 | 352 | 170 | 931 | 76 | 442 |

* By rectification. † Two of the nine notified cancelled. ‡ One of the ten notified cancelled.

# APPENDIX B.

## Causes of delay in the submission of final notifications of forest reserves.

| Districts. | Causes of delay. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Notified under section 16 during 1895-96, but with effect only from 1896-97, *i.e.*, after 30th June 1896. | With Board or Government awaiting publication of notification under section 16. | Pending preparation of maps. | Awaiting disposal of appeals. | Awaiting expiry of time prescribed for appeal. | Only recently notified under section 4. | Awaiting payment of compensation. | Awaiting settlement of claims under enquiry. | Awaiting District Forest-officers' answers to claims, demarcation, &c. | Settled, but final report pending with the Collector or Forest Settlement-officer. | Pending with the Collector or Forest Settlement-officer for revision of notifications. | Awaiting replies to references made to Collector or Board. | Awaiting inspection by Forest Settlement-officer. | Other causes, *i.e.*, awaiting return of records from the District Courts, information from Tahsildars, &c. | Total.* |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Ganjám | .. | 8 | 7 | .. | 1 | .. | 1 | .. | 1 | .. | 13 | .. | .. | 3 | 34 |
| Vizagapatam | .. | 2 | .. | 3 | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 7 |
| Gódávari | 1 | 3 | 2 | 2 | 1 | .. | .. | .. | .. | 1 | .. | .. | .. | 2 | 12 |
| Kistna | 4 | 13 | 5 | 2 | 1 | 3 | .. | 2 | 6 | .. | .. | .. | 5 | 8 | 49 |
| Kurnool | .. | 3 | 1 | .. | .. | .. | .. | 1 | .. | 4 | .. | 1 | 5 | 10 | 25 |
| Bellary | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 4 | .. | 7 |
| Anantapur | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 | 1 | .. | 11 | .. | 14 |
| Cuddapah | .. | 7 | .. | .. | .. | .. | .. | 2 | .. | 2 | 5 | .. | 13 | .. | 29 |
| Nellore | 2 | 7 | .. | .. | .. | 5 | .. | 1 | .. | .. | 2 | .. | 7 | .. | 24 |
| Chingleput | 2 | 12 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 26 | 40 |
| North Arcot | 2 | 3 | .. | 1 | .. | 1 | .. | .. | .. | 2 | 7 | .. | 7 | .. | 23 |
| South Arcot | 1 | 11 | .. | .. | .. | 3 | .. | .. | .. | 11 | 2 | .. | .. | 26 | 54 |
| Salem | .. | 9 | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 21 | .. | 38 |
| Trichinopoly | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | 1 |
| South Canara | 4 | 4 | 4 | .. | .. | 3 | .. | 2 | 1 | .. | .. | .. | 35 | .. | 53 |
| North Malabar | .. | .. | 1 | 2 | .. | 1 | 1 | .. | .. | .. | .. | 1 | .. | .. | 6 |
| South Malabar | .. | 1 | 1 | 12 | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 4 | 21 |
| Nilgiris | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 33 | .. | .. | 34 |
| North Coimbatore | .. | 7 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | .. | 11 | 21 |
| South Coimbatore | 1 | 2 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 4 |
| Madura | 4 | 14 | 2 | .. | .. | .. | .. | .. | .. | .. | 4 | 6 | .. | 3 | 33 |
| Tinnevelly | .. | 9 | .. | .. | 1 | 3 | .. | 2 | .. | 1 | .. | .. | .. | 1 | 17 |
| Total .. | 21 | 117 | 23 | 22 | 4 | 22 | 2 | 10 | 8 | 23 | 39 | 43 | 113 | 94 | 541 |

* The difference between this column and the total in Appendix C to Board's Proceedings, No. 396-F, dated 28th August 1896, is due to—(1) the clubbing or division of blocks; (2) the reported blocks pending with the Board, Government, Collector, District Forest-officer or with the Forest Settlement-officer; (3) the inclusion in this statement of the blocks with Divisional officers.

# APPENDIX C.

## RESERVED lands not under settlement in square miles.

| Districts. | Up to 1894-95. | Added during 1894-95. | Added during 1895-96. | Total. | Transferred for settlement. | | | | Balance remaining reserved lands not under settlement. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Up to 1894-95. | During 1894-95. | During 1895-96. | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| *Northern Circle.* | | | | | | | | | |
| Ganjám .. .. | 573 | 3 | 6<br>*c* — 23 | 559 | 573<br>*c* — 23 | 3 | 6 | 559 | .. |
| Vizagapatam .. | 304 | 128 | *c* — 17 | 415 | 303 | — 2 | .. | 301 | 114 |
| Gódávari .. .. | 1,001 | .. | *b* — 26 | 975 | 1,001<br>*b* — 26 | .. | .. | 975 | .. |
| Kistna .. .. | 1,169 | 21<br>*b* — 1<br>*c* — 77 | 114<br>*c* — 2 | 1,212 | 754<br>*c* — 2<br>*d* — 12 | 40 | 11 | 791 | 421 |
| Kurnool .. .. | 1,954 | 279 | 7<br>*a* + 10<br>*b* — 3<br>*c* — 3 | 2,244 | 1,954<br>*b* — 3<br>*c* — 3 | 143 | 1<br>*a* + 10 | 2,102 | 142 |
| Bellary .. .. | 547 | 17 | 77<br>*a* 4<br>*b* — 2<br>*c* — 6 | 637 | 485<br>*b* — 2<br>*c* — 6<br>*d* + 3 | — 1 | 12 | 491 | 146 |
| Anantapur .. .. | 442 | 71 | 9<br>*b* — 1<br>*c* — 4 | 517 | 442<br>*b* — 1<br>*c* — 4 | 71 | 9 | 517 | .. |
| Total .. | 5,990 | 441 | 128 | 6,559 | 5,433 | 254 | 49 | 5,736 | 823 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. | 2,155 | 112 | 110<br>*a* — 17<br>*c* — 3 | 2,357 | 1,835<br>*a* — 17 | 245 | 132 | 2,195 | 162 |
| Nellore .. .. | 600 | 52 | 26<br>*a* — 1<br>*b* — 12<br>*c* — 4 | 661 | 581<br>*a* — 1<br>*b* — 12<br>*c* — 4 | 53 | 26<br>*a* + 6 | 649 | 12 |
| Chingleput .. .. | 239 | 1 | 3<br>*c* — 5 | 238 | 224<br>*c* — 4 | 1 | 3 | 224 | 14 |
| North Arcot .. .. | 1,066 | 71 | 1<br>*b* — 1<br>*c* — 6 | 1,131 | 1,055<br>*b* — 1<br>*c* — 6 | 26<br>*a* — 1 | 18<br>*a* + 1 | 1,102 | 29 |
| South Arcot .. .. | 843 | 23 | 1<br>*a* — 49<br>*b* — 34<br>*c* — 5 | 779 | 843<br>*a* — 3<br>*b* — 34<br>*c* — 5<br>*d* — 45 | 6 | 10 | 772 | 7 |
| Salem .. .. | 1,311 | 35 | 80<br>*a* + 40<br>*b* — 1<br>*c* — 1 | 1,464 | 1,207<br>*b* — 1<br>*c* — 1<br>*d* + 40 | 51 | 85 | 1,381 | 83 |
| Trichinopoly .. | 240 | 3<br>*b* — 1<br>*c* — 5 | *c* — 4 | 233 | 201<br>*c* — 4 | 3<br>*b* — 1<br>*c* — 5 | .. | 194 | 39 |
| Tanjore .. .. | 24 | 9 | *c* — 14 | 19 | 19 | .. | .. | 19 | .. |
| Total .. | 6,478 | 300 | 104 | 6,882 | 5,877 | 378 | 281 | 6,536 | 346 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. | 1,113 | 27 | 9<br>*c* — 14<br>*a* — 1 | 1,134 | 224<br>*a* — 3<br>*c* — 1 | 214 | 115 | 549 | 585 |
| North Malabar .. | 275 | 2 | *c* — 5 | 272 | 275<br>*a* — 2<br>*c* — 5 | 2 | .. | 270 | 2 |
| South Malabar .. | 328 | .. | .. | 328 | 299 | .. | .. | 299 | 29 |
| Nilgiris .. .. | 436 | — 14 | *a* + 2 | 452 | 357 | 1 | .. | 358 | 94 |
| North Coimbatore .. | 1,737 | *c* — 19 | *a* — 1 | 1,717 | 1,634 | 17 | .. | 1,651 | 66 |
| South Coimbatore .. | 591 | *c* — 4 | 3<br>*c* — 18<br>*a* + 85 | 657 | 574<br>*a* — 1<br>*d* + 85 | *c* — 4 | 3 | 657 | .. |
| Madura .. .. | 651 | .. | *a* + 1<br>*c* — 3 | 649 | 639<br>*a* + 1<br>*c* — 3 | .. | .. | 637 | 12 |
| Tinnevelly .. .. | 411 | 19 | 11<br>*a* — 5<br>*c* — 8 | 428 | 410<br>*a* — 4<br>*c* — 8 | 19 | 11 | 428 | .. |
| Total .. | 5,542 | 39 | 56 | 5,637 | 4,471 | 249 | 129 | 4,849 | 788 |
| Grand Total .. | 18,010 | 780 | 288 | 19,078 | 15,781 | 881 | 459 | 17,121 | 1,957 |

*a*. By rectification. *b*. At Settlement. *c*. Unreserved or disforested.
*d*. By rectification of areas already constituted reserved forests.

## APPENDIX D.

ABSTRACT of district reports in regard to the maintenance of maps in accordance with the provisions of section 81 of the Forest Code.

### *Northern Circle.*

*Ganjam.*—One district map and 48 reserve maps were prepared during the year.

*Vizagapatam.*—The work of posting up the reserves in the district and taluk maps including Range officers' copies and of preparing separate map for each reserve has not yet been commenced, the time of the draughtsman being fully occupied in preparing tracings to accompany draft notifications under sections 4 and 16 of the Forest Act.

*Gódávari.*—The district map (1 inch = 4 miles) has been maintained as also range maps (1 inch = 1 mile). Separate maps for each reserve are also kept, most of them 1 inch = 1 mile, others 2″ and 4″ to the mile.

*Kistna.*—Separate maps for reserves are under preparation. The range maps have been posted.

*Bellary.*—The instructions regarding the maintenance of the district, range and reserve maps in both the district and range offices have been attended to.

*Anantapur.*—The district reference map has been maintained and posted up to date as also taluk maps, on a scale of 1 inch to the mile with reserve boundaries marked thereon for three ranges. Separate maps (scale 8 inches = 1 mile) for the reserved forests notified during the year under sections 16 and 4 have been prepared and the former have been sent to the Survey office for preparation of additional copies.

### *Central Circle.*

*Cuddapah.*—The district forest reference map on the scale of 4 miles to the inch has been maintained and taluk maps (scale 1 inch = 1 mile) have been supplied to Range officers with reserve boundaries marked and posted up. Separate maps for only thirty reserves have been made and supplied to Range officers.

*Nellore.*—No attempt has been made to maintain the required maps.

*Chingleput.*—The district and range maps have been posted up. Copies of 114 sketches of final maps have been made for supply to Range officers.

*North Arcot.*—A first instalment of six maps covering an area of 99 square miles has been received from the Survey of India Party and distributed to Range officers.

*South Arcot.*—The district map on the scale of 4 miles to the inch as well as taluk maps used as range reference maps have been posted up. Separate maps for all reserves except those on the Tenmalais have been supplied to Range officers. For the blocks on the Tenmalais the Survey of India maps are awaited.

*Salem.*—A district forest reference map on the scale of 4 miles to the inch showing all reserves and forest buildings is maintained as also a range reference map on the scale of 1 inch to the mile for all ranges except Dharmapuri, showing therein minor forest stations such as forest guards, permit officers and tannadars' head-quarter stations.

*Tanjore.*—The district as well as range reference maps with interior details and separate maps for each reserve have been maintained. Working plan maps for a few reserves have also been prepared.

*Trichinopoly.*—The office reference and taluk maps have been maintained. As regards separate maps for reserves it is proposed to mark the reserves on the new village maps and take tracings for all the blocks except those on the Pachamalais in the Musiri and Perambalúr taluks. For these, maps will be prepared by the Survey of India Party.

### *Southern Circle.*

*South Canara.*—The district reference map and separate maps for each reserve have been maintained and the former has been posted up to 30th June 1896. Of the range reference maps that of the Coondapoor Range is completed.

*South Malabar.*—The office reference map has been posted up to 30th June 1896. There are separate maps for each reserve but no range reference maps. The preparation of the latter is deferred for want of a draughtsman.

*Nilgiris.*—The district and range reference maps have been completed during the year. Separate maps for each reserve remain to be done.

*North Coimbatore.*—The office reference map is maintained. The topographical sheets are used as range reference maps and are being posted up. There are no reserve maps but the settlement map has been supplied to Range officers for the principal reserves to use together with the topographical sheets as reserve maps.

*South Coimbatore.*—The district reference map has been prepared. Range office reference maps have been prepared for three ranges. There are Survey of India maps of all reserves but some details have to be entered on them. There are also separate maps for the working circles.

*Madura.*—The district and range offices have all got district and range reference maps, except Cumbum Range office. Separate maps of reserves have also been supplied.

*Tinnevelly.*—The district reference map has been posted up to 30th June 1896. There is only one set of taluk maps with all the interior details shown therein and attempts are being made to distribute copies to Range officers. Survey of India maps for reserves have been supplied to all Range officers.

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## APPENDIX E.

STATEMENT showing area of reserved forests for which final maps have been prepared

| Districts. | Area of reserved forests. | Area of reserved forests for which final maps have been prepared. | Districts. | Area of reserved forests. | Area of reserved forests for which final maps have been prepared. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | | SQ. MLS. | SQ. MLS. |
| Ganjám .. .. .. | 133 | 117 | Trichinopoly .. .. | 192 | (*c*) 4 |
| Vizagapatam .. .. | 87 | (*c*) 14 | Tanjore .. .. .. | 19 | 19 |
| Gódávari .. .. .. | 634 | 51 | South Canara .. .. | 114 | 94 |
| Kistna .. .. .. | 641 | 294 | North Malabar .. .. | 157 | (*c*) 151 |
| Kurnool .. .. .. | 1,748 | .. | South Malabar .. .. | 39 | 39 |
| Bellary .. .. .. | 452 | 62 | Nilgiris .. .. .. | 357 | (*b*) .. |
| Anantapur .. .. .. | 440 | 48 | North Coimbatore .. | 859 | 17 |
| Cuddapah .. .. .. | 1,535 | 1,437 | South Coimbatore .. .. | 651 | 651 |
| Nellore .. .. .. | 436 | (*a*) .. | Madura .. .. .. | 559 | 559 |
| Chingleput .. .. .. | 200 | 200 | Tinnevelly .. .. | 411 | 411 |
| North Arcot .. .. | 995 | 134 | | | |
| South Arcot .. .. .. | 505 | 505 | | | |
| Salem .. .. .. | 1,224 | (*d*) 441 | Total .. | 12,388 | 5,248 |

(*a*) It is reported that no reserves have been finally mapped as per instructions contained in paragraph 26 of the Forest Administration Report for 1893–94.

(*b*) It is reported that final maps, in accordance with the instructions conveyed in Board's Proceedings, Forest No. 37, dated 16th January 1894, and No. 253, dated 29th April 1895, have not been prepared for any reserve in the district. The maps of the areas shown in the previous year's returns were only sketches that accompanied notifications under section 16.

(*c*) As the figures for this year have not been reported those of the previous year have been taken?

(*d*) The figure is less than that entered in the corresponding appendix for 1894–95, but the difference is not explained by the Collector.

# APPENDIX F.

STATEMENT showing the area of forest reserves closed to grazing, the area grazed over and the average number of cattle grazed per square mile during 1895–96.

| Districts. | Area of reserved forests and reserved lands. | Area closed to grazing. | Area opened to grazing except sheep or goats. | Area grazed over. | Number of cattle and sheep admitted. | Average number of cattle per square mile. |
|---|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | NO. CATTLE. | |
| 1. Ganjám .. .. .. | 559 | 123 | 436 | .. | 42,107 cattle.<br>1,047 sheep. | 99 |
| 2. Vizagapatam .. .. .. | 415 | 4 | 411 | 111 | 7,260 cattle.<br>No sheep. | 18 |
| 3. Gódávari .. .. .. | 975 | 302 | 673 | .. | No information. | .. |
| 4. Kistna .. .. .. | 1,212 | 144 | (a) 1,068 | .. | Do. | .. |
| 5. Kurnool .. .. .. | 2,244 | 114 | (b) 2,244 | .. | 7,848 buffaloes.<br>91,633 bulls and cows.<br>67,312 sheep.<br>1,000 goats. | 74<br>500 |
| 6. Bellary .. .. .. | 637 | 186 | (c) 451 | 451 | 30,775 buffaloes.<br>29,487 bulls and cows.<br>79,886 sheep.<br>650 goats. | 311 |
| 7. Anantapur .. .. .. | 517 | 110 | 407 | .. | 35,421 cattle.<br>70 sheep. | 89 |
| 8. Nellore .. .. .. | 661 | 7 | 631<br>(d) 23 | .. | 58,345 cattle.<br>5,821 buffaloes.<br>58,700 sheep and goats. | 102<br>2,552 |
| 9. Cuddapah .. .. .. | 2,357 | 4 | 2,353 | .. | No information. | .. |
| 10. Chingleput .. .. .. | 238 | 38 | (e) 200 | .. | 1,361 buffaloes.<br>18,178 bulls and cows.<br>15,162 sheep.<br>1,315 goats. | 173<br>131 |
| 11. North Arcot .. .. .. | 1,131 | 64 | (f) 1,067 | .. | 88,843 cattle.<br>45,644 sheep. | 121 |
| 12. South „ .. .. .. | 779 | 17 | 762 | 761 | 110,002 cattle.<br>129,832 sheep. | 144 |
| 13. Salem .. .. .. .. | 1,464 | 60 | 1,404 | .. | 36,667 cattle. | 26 |
| 14. Trichinopoly .. .. .. | 233 | 46 | 187 | .. | .. | .. |
| 15. Tanjore .. .. .. | 19 | 2 | 17 | .. | 1,013 cattle.<br>2,550 sheep. | 209 |
| 16. South Canara .. .. .. | 1,134 | 22 | 1,112 | .. | 2,729 buffaloes.<br>21,887 cattle. | 22 |
| 17. North Malabar .. .. | 272 | 52 | (g) 220 | .. | 9,925 | 45 |
| 18. South „ .. .. | 328 | 328 | .. | .. | .. | .. |
| 19. Nilgiris .. .. .. | 452 | 11 | 441 | .. | 31,133 | 71 |
| 20. North Coimbatore .. .. | 1,717 | 237 | 1,480 | .. | .. | .. |
| 21. South „ .. .. | 657 | 265 | 392 | .. | 18,622 cattle.<br>70,248 sheep. | 228 |
| 22. Madura .. .. .. | 649 | 29 | 620 | .. | .. | .. |
| 23. Tinnevelly .. .. .. | 428 | 300 | 128 | .. | .. | .. |

(a) Of this, 313 square miles were open to goats also.
(b) Of this, goats were admitted in 2 square miles.
(c) In 95 square miles goats were also admitted.
(d) Reserved for sheep and goats only.
(e) Of this, goats were also admitted in 10 square miles.
(f) In 70 square miles sheep and goats were admitted.
(g) Of this, 105 square miles were open to all animals.

ANNUAL FORM No. 44-A.

*Forest Department, Madras Presidency.*

AREA of reserved forests, 1895–96.

| District. | Area on the 1st July 1895. | | Added during the year. | Excluded or transferred to other heads. | Area on 30th June 1896. | |
|---|---|---|---|---|---|---|
| | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. |
| *Northern Circle.* | | | | | | |
| Ganjám .. .. .. .. .. | 86,754 | 136 | 69 | 2,007 | 84,816 | 133 |
| Vizagapatam .. .. .. .. | 37,431 | 58 | 18,194 | .. | 55,625 | 87 |
| Gódávari .. .. .. .. | 333,218 | 521 | 72,360 | .. | 405,578 | 634 |
| Kistna .. .. .. .. .. | 411,588 | 643 | 6,402 | 7,633 | 410,357 | 641 |
| Kurnool .. .. .. .. | 1,112,006 | 1,737 | 67,222 | 60,395 | 1,118,833 | 1,748 |
| Bellary .. .. .. .. .. | 230,436 | 360 | 60,074 | 1,199 | 289,311 | 452 |
| Anantapur .. .. .. .. | 243,188 | 380 | 38,335 | .. | 281,523 | 440 |
| Total .. | 2,454,621 | 3,835 | 262,656 | 71,234 | 2,646,043 | 4,135 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. | 799,962 | 1,250 | 182,613 | . | 982,575 | 1,535 |
| Nellore .. .. .. .. .. | 266,874 | 417 | 12,070 | .. | 278,944 | 436 |
| Chingleput .. .. .. .. | 126,229 | 197 | 1,800 | .. | 128,029 | 200 |
| North Arcot .. .. .. .. | 618,168 | 966 | 20,300 | 1,736 | 636,732 | 995 |
| South Arcot .. .. .. .. | 297,288 | 464 | 56,099 | 30,370 | 323,017 | 505 |
| Salem .. .. .. .. .. | 696,926 | 1,089 | 87,892 | 1,069 | 783,749 | 1,224 |
| Trichinopoly .. .. .. .. | 122,816 | 192 | .. | .. | 122,816 | 192 |
| Tanjore .. .. .. .. .. | 12,160 | 19 | .. | .. | 12,160 | 19 |
| Total .. | 2,940,423 | 4,594 | 360,774 | 33,175 | 3,268,022 | 5,106 |
| *Southern Circle.* | | | | | | |
| South Canara .. .. .. .. | 72,795 | 114 | .. | .. | 72,795 | 114 |
| Malabar, North .. .. .. | 96,503 | 151 | 4,798 | 579 | 100,722 | 157 |
| Do. South .. .. .. | 25,173 | 39 | .. | .. | 25,173 | 39 |
| Nilgiris .. .. .. .. .. | 227,268 | 355 | 1,287 | 113 | 228,442 | 357 |
| Coimbatore, North .. .. .. | 549,860 | 859 | .. | 100 | 549,760 | 859 |
| Do. South .. .. .. | 362,261 | 566 | 54,686 | .. | 416,947 | 651 |
| Madura .. .. .. .. . | 346,885 | 542 | 11,001 | .. | 357,886 | 559 |
| Tinnevelly .. .. .. .. | 262,920 | 411 | .. | .. | 262,920 | 411 |
| Total .. | 1,943,665 | 3,037 | 71,772 | 792 | 2,014,645 | 3,147 |
| Grand Total .. | 7,338,709 | 11,466 | 695,202 | 105,201 | 7,928,710 | 12,388 |

## ANNUAL FORM No. 44-B.

*Forest Department, Madras Presidency.*

AREA of reserved lands, 1895–96.

| Districts. | Area on 1st July 1895. | | Added during the year. | Excluded or transferred to other heads. | Area on 30th June 1896. | |
|---|---|---|---|---|---|---|
| | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. |
| *Northern Circle.* | | | | | | |
| Ganjám .. .. .. .. .. | 282,013 | 441 | 3,595 | 12,846 | 272,762 | 426 |
| Vizagapatam .. .. .. .. | 239,324 | 374 | 205 | 29,707 | 209,822 | 328 |
| Gódávari .. .. .. .. | 307,700 | 481 | 104 | 89,304 | 218,500 | 341 |
| Kistna .. .. .. .. .. | 300,395 | 469 | 112,329 | 47,392 | 365,332 | 571 |
| Kurnool .. .. .. .. .. | 316,732 | 495 | 16,991 | 16,580 | 317,143 | 496 |
| Bellary .. .. .. .. .. | 130,642 | 204 | 50,148 | 62,579 | 118,211 | 185 |
| Anantapur .. .. . .. | 85,026 | 133 | 6,122 | 41,606 | 49,542 | 77 |
| Total .. | 1,661,832 | 2,597 | 189,494 | 300,014 | 1,551,312 | 2,424 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. | 651,306 | 1,018 | 69,739 | 195,255 | 525,790 | 822 |
| Nellore .. .. .. .. .. | 150,103 | 235 | 16,650 | 22,691 | 144,062 | 225 |
| Chingleput .. .. .. .. | 27,139 | 42 | 1,841 | 4,691 | 24,289 | 38 |
| North Arcot .. .. .. .. | 109,526 | 170 | 664 | 22,875 | 87,315 | 136 |
| South Arcot .. .. .. .. | 257,228 | 402 | 391 | 82,468 | 175,151 | 274 |
| Salem .. .. .. .. .. | 164,910 | 258 | 51,129 | 62,522 | 153,517 | 240 |
| Trichinopoly .. .. .. .. | 28,912 | 45 | .. | 2,662 | 26,250 | 41 |
| Tanjore .. .. .. .. .. | 8,820 | 14 | .. | 8,820 | .. | .. |
| Total .. | 1,397,944 | 2,184 | 140,414 | 401,984 | 1,136,374 | 1,776 |
| *Southern Circle.* | | | | | | |
| South Canara .. .. .. .. | 656,461 | 1,026 | 10,901 | 14,880 | 652,482 | 1,020 |
| Malabar, North .. .. .. | 80,376 | 126 | 129 | 6,973 | 73,532 | 115 |
| Do. South .. .. .. | 185,018 | 289 | .. | 41 | 184,977 | 289 |
| Nilgiris .. .. .. .. .. | 61,663 | 96 | 234 | 1,328 | 60,569 | 95 |
| Coimbatore, North .. .. .. | 549,086 | 858 | .. | .. | 549,086 | 858 |
| Do. South .. .. .. | 13,358 | 21 | 1,884 | 11,256 | 3,986 | 6 |
| Madura .. .. .. .. .. | 70,076 | 109 | 2,041 | 13,973 | 58,144 | 90 |
| Tinnevelly .. .. .. .. | 12,192 | 19 | 5,967 | 7,263 | 10,896 | 17 |
| Total .. | 1,628,230 | 2,544 | 21,156 | 55,714 | 1,593,672 | 2,490 |
| Grand Total .. | 4,688,006 | 7,325 | 351,064 | 757,712 | 4,281,358 | 6,690 |

ANNUAL FORM No. 44-C.

*Forest Department, Madras Presidency.*

AREA of reserved forests, 1895–96.

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *Northern Circle.* | | | | | | | | |
| Ganjám. | Mojjaguda. | Dimrijholi .. .. | 5,486 | 9 | .. | .. | 5,486 | 9 | No. 414 of 16th Dec. 1887. | |
| | | Rambha .. .. | 9,300 | 15 | .. | .. | 9,300 | 15 | No. 550 of 4th Nov. 1893. | |
| | Suradá .. | Bondagocha .. .. | 4,400 | 7 | .. | .. | 4,400 | 7 | No. 253 of 13th Sept. 1888. | |
| | | Malati .. .. | 1,720 | 2 | .. | .. | 1,720 | 2 | No. 254 of 13th Sept. 1888. | |
| | | Dabuki .. .. | 1,450 | 2 | .. | .. | 1,450 | 2 | No. 445 of 3rd Oct. 1890. | |
| | | Vinjagiri .. .. | 6,000 | 9 | .. | .. | 6,000 | 9 | No. 31 of 28th Jan. 1891. | |
| | Kukuluba. | Jagannathaprasad .. | 26,200 | 41 | .. | .. | 26,200 | 41 | No. 319 of 17th July 1890. | |
| | | Chondragiri .. .. | 18,320 | 29 | .. | .. | 18,320 | 29 | No. 306 of 7th July 1891. | |
| | | Kullada .. .. | 2,760 | 4 | .. | .. | 2,760 | 4 | No. 379 of 17th July 1893. | |
| | Buguda .. | Panchabuthia .. | 4,320 | 7 | .. | .. | 4,320 | 7 | No 53 of 12th Feb. 1891. | |
| | | Vishnuchakram .. | 4,860 | 8 | .. | .. | 4,860 | 8 | No. 68 of 16th Feb. 1891. | |
| | Chicacole. | Singupuram .. .. | 730 | 1 | .. | 730 | .. | .. | No. 195 of 10th Apr. 1896. | |
| | | Ampolu .. .. | 225 | .. | (*a*) 45 | 270 | .. | .. | | |
| | | Koduru .. .. | 279 | 1 | .. | 272<br>7 | .. | .. | | |
| | | Jammu .. .. | 175 | | | 118<br>57 | | | | |
| | | Rana .. .. .. | 107 | 1 | .. | 104<br>3 | .. | .. | | |
| | | Tuluga .. .. | 148 | .. | (*a*) 4 | 152 | .. | .. | | |
| | | Rahimanpuram .. | 274 | .. | (*a*) 20 | 294 | .. | .. | | |
| | | Total .. | 86,754 | 136 | 69 | 2,007 | 84,816 | 133 | | |
| Vizagapatam. | Palkonda. | Antikonda .. .. | .. | .. | 6,800 | .. | 6,800 | .. | No. 54 of 3rd Feb. 1896. | |
| | | Chinamangalapuram. | 51 | .. | .. | .. | 51 | .. | No. 563 of 22nd Nov. 1894. | |
| | | Garuguballi .. .. | 27 | .. | .. | .. | 27 | .. | No. 498 of 10th Oct. 1894. | |
| | | Chinnagora .. .. | 2,047 | .. | .. | .. | 2,047 | .. | No. 294 of 12th June 1894. | |
| | | Itchapuram .. .. | 900 | .. | .. | .. | 900 | .. | No. 119 of 9th Mar. 1895. | |
| | | Pedabolla, &c. .. | .. | .. | 29 | .. | 29 | .. | No. 54 of 3rd Feb. 1896. | |
| | Sarvasiddhi. | Peddapalli .. .. | 9,077 | .. | .. | .. | 9,077 | .. | No. 226 of 7th Aug. 1888. | |
| | | Vemagiri .. .. | .. | .. | 1,641 | .. | 1,641 | .. | No. 283 of 18th May 1895. | |
| | | Gokivada .. .. | 1,305 | .. | .. | .. | 1,305 | .. | No. 53 of 26th Mar. 1895. | |
| | | Panchadharla .. | 1,221 | .. | .. | .. | 1,221 | .. | No. 128 of 11th Mar. 1895. | |
| | | Kalavalapalli .. | 1,242 | .. | .. | .. | 1,242 | .. | | |
| | | Ramballi .. .. | 485 | .. | .. | .. | 485 | .. | No. 85 of 20th Feb. 1895. | |
| | Golgonda. | Arlova .. .. | 2,473 | .. | .. | .. | 2,473 | .. | No. 496 of 14th Oct. 1892. | |
| | | Pedimikonda .. | 3,227 | .. | .. | .. | 3,227 | .. | No. 425 of 18th Aug. 1893. | |
| | | Kakurlakonda .. | 1,924 | .. | .. | .. | 1,924 | .. | No. 496 of 14th Oct. 1892. | |
| | | Venkatapuram .. | 508 | .. | .. | .. | 508 | .. | | |
| | | Kodavatipudi . | 1,544 | .. | .. | .. | 1,544 | .. | | |
| | | Chintapally .. .. | 11,400 | .. | .. | .. | 11,400 | .. | No. 126 of 7th Mar. 1895. | |
| | | Karakakonda .. | .. | .. | 6,270 | .. | 6,270 | .. | No. 48 of 9th Dec. 1895. | |
| | | Madalamakonda .. | ... | .. | 3,446 | .. | 3,446 | .. | No. 328 of 12th June 1895. | |
| | | Chinna karaka .. | .. | .. | 8 | .. | 8 | .. | No. 48 of 9th Dec. 1895. | |
| | | Total .. | 37,431 | 58 | 18,194 | .. | 55,625 | 87 | | |

(*a*) Rectification.

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Northern Circle*—cont. | | | | | | | | | |
| Gódávari. | Bhadrachalam. | Komanpalli .. .. | 3,250 | .. | .. | .. | 3,250 | .. | .... | |
| | | Mukanapalli .. .. | 3,658 | .. | .. | .. | 3,658 | .. | .... | |
| | | Dumnagudem .. | 6,110 | .. | .. | .. | 6,110 | .. | .... | |
| | | Arlagudem .. .. | 6,136 | .. | .. | .. | 6,136 | .. | .... | |
| | | Tunikicheruvu .. | 8,022 | .. | .. | .. | 8,022 | .. | .... | |
| | | Bhadrachalam .. | 10,860 | .. | .. | .. | 10,860 | .. | .... | |
| | | Gogubaka .. .. | 1,666 | .. | .. | .. | 1,666 | .. | .... | |
| | Manigudem. | Bandreo .. .. | 10,900 | .. | .. | .. | 10,900 | .. | .... | |
| | | Golaguppa .. .. | 8,000 | .. | .. | .. | 8,000 | .. | .... | |
| | | Narakonda .. .. | 7,500 | .. | .. | .. | 7,500 | .. | .... | |
| | | Pengha .. .. | 4,400 | .. | .. | .. | 4,400 | .. | .... | |
| | | Upanapalli .. .. | 3,300 | .. | .. | .. | 3,300 | .. | .... | |
| | | Tatlanka .. .. | 12,000 | .. | .. | .. | 12,000 | .. | .... | |
| | | Ramachendram .. | 10,300 | .. | .. | .. | 10,300 | .. | .... | |
| | | Repak .. .. .. | 7,000 | .. | .. | .. | 7,000 | .. | .... | |
| | | Sitarampuram .. | 3,000 | .. | .. | .. | 3,000 | .. | .... | |
| | | Bhandamgudem .. | 7,100 | .. | .. | .. | 7,100 | .. | .... | |
| | | Burkankota .. .. | 1,500 | .. | .. | .. | 1,500 | .. | .... | |
| | Rekapalli. | Pulsumamidi .. .. | 4,520 | .. | .. | .. | 4,520 | .. | .... | |
| | | Manigura .. .. | 44,500 | .. | .. | .. | 44,500 | .. | .... | |
| | | Maltapalli .. .. | 9,500 | .. | .. | .. | 9,500 | .. | .... | |
| | | Nelakotta .. .. | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | | Lakkavaram .. .. | 6,500 | .. | .. | .. | 6,500 | .. | .... | |
| | | Kallem .. .. | 6,500 | .. | .. | .. | 6,500 | .. | .... | |
| | | Kanslur .. .. | 6,200 | .. | .. | .. | 6,200 | .. | .... | |
| | | Walsugri .. .. | .. | .. | 6,530 | .. | 6,530 | .. | No. 55 of 4th Feb. 1896. | |
| | Rajahmundry. | Mallavaram .. .. | 7,600 | .. | .. | .. | 7,600 | .. | .... | |
| | | Mollem .. .. | 8,250 | .. | .. | .. | 8,250 | .. | .... | |
| | | Sudikonda .. .. | 6,880 | .. | .. | .. | 6,880 | .. | .... | |
| | | Devancheruvu block No. I. | .. | .. | 1,287 | .. | 1,287 | .. | No. 63 of 11th Feb. 1896. | |
| | | Devancheruvu block No. II. | .. | .. | 764 | .. | 764 | .. | | |
| | | Lakkonda .. .. | .. | .. | 13,104 | .. | 13,104 | .. | No. 205 of 25th Apr. 1896. | |
| | Peddapur. | Kovida .. .. | 1,280 | .. | .. | .. | 1,280 | .. | .... | |
| | | Murari .. .. | 700 | .. | .. | .. | 700 | .. | .... | |
| | | Vuligogula .. .. | 12,000 | .. | .. | .. | 12,000 | .. | .... | |
| | | Sarlanka .. .. | 15,000 | .. | .. | .. | 15,000 | .. | .... | |
| | | Raghavapatnam .. | 3,600 | .. | .. | .. | 3,600 | .. | .... | |
| | | Anantavaram .. | 4,000 | .. | .. | .. | 4,000 | .. | .... | |
| | | Jotapalli .. .. | 2,150 | .. | .. | .. | 2,150 | .. | .... | |
| | | Banadapalli .. .. | 5,800 | .. | .. | .. | 5,800 | .. | .... | |
| | | Lododdi .. .. | 7,200 | .. | .. | .. | 7,200 | .. | .... | |
| | | Vatangi .. .. | 8,840 | .. | .. | .. | 8,840 | .. | .... | |
| | | Aminbada .. .. | 4,480 | .. | .. | .. | 4,480 | .. | .... | |
| | | Anantagiri .. .. | 3,050 | .. | .. | .. | 3,050 | .. | .... | |
| | | Labbarti .. .. | 6,500 | .. | .. | .. | 6,500 | .. | .... | |
| | | Ramasaram .. .. | .. | .. | 800 | .. | 800 | .. | No. 278 of 25th May 1895. | |
| | | Doramamidi .. | .. | .. | 6,400 | .. | 6,400 | .. | No. 213 of 24th Apr. 1896. | |
| | | Veerabhadrapuram .. | .. | .. | 10,300 | .. | 10,300 | .. | No. 215 of 24th Apr. 1896. | |
| | | Jaddangi .. .. | .. | .. | 5,775 | .. | 5,775 | .. | No. 204 of 25th Apr. 1896. | |
| | | Anlavaram .. .. | .. | .. | 8,500 | .. | 8,500 | .. | No. 210 of 24th Apr. 1896. | |
| | | Peddagurangi .. | .. | .. | 4,000 | .. | 4,000 | .. | No. 214 of 24th Apr. 1896. | |
| | | Lingamparti .. | .. | .. | 6,500 | .. | 6,500 | .. | No. 211 of 24th Apr. 1896. | |
| | Yernagudem. | Ungutur block No. I. | 2,200 | .. | .. | .. | 2,200 | .. | .... | |
| | | Do. ,, II. | 1,600 | .. | .. | .. | 1,600 | .. | .... | |
| | | Bamullalapadu .. | 1,650 | .. | .. | .. | 1,650 | .. | .... | |
| | | Taduvai .. .. | 1,500 | .. | .. | .. | 1,500 | .. | .... | |
| | | Nallacherla .. .. | .. | .. | 8,400 | .. | 8,400 | .. | No. 1 of 7th Jan. 1896. | |
| | Ellore .. | Chinthalapudi .. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |
| | | Tadikalapudi .. | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | | Bandamcherla .. | 5,200 | .. | .. | .. | 5,200 | .. | .... | |
| | | Erraguntapalli .. | 8,640 | .. | .. | .. | 8,640 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Northern Circle*—cont. | | | | | | | | | | |
| Gódávari—*cont.* | Ellore—*cont.* | Velagalapalli .. | 2,200 | .. | .. | .. | 2,200 | .. | .... | |
| | | Barrikonda .. .. | 3,500 | .. | .. | .. | 3,500 | .. | .... | |
| | | Ramasingavaram .. | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | Delta .. | Narsapur .. .. | 114 | .. | .. | .. | 114 | .. | .... | |
| | | Coringa .. .. | 7,000 | .. | .. | .. | 7,000 | .. | .... | |
| | | Bendamurlanka .. | 362 | .. | .. | .. | 362 | .. | .... | |
| | | Total .. | 333,218 | 521 | 72,360 | .. | 405,578 | 634 | .. .. | |
| Kistna. | Bandur .. | Kara .. .. .. | 21 | .. | .. | .. | 21 | .. | .... | |
| | | Vanudurru .. .. | 67 | .. | (*a*) 7 | .. | 74 | .. | .... | |
| | | Vemavarampad .. | 16 | .. | .. | .. | 16 | .. | .... | |
| | | Bomminampad .. | 26 | .. | .. | .. | 26 | .. | .... | |
| | | Allinagaram .. .. | 64 | .. | .. | (*a*) 8 | 56 | .. | .... | |
| | | Kanukollu .. .. | 567 | .. | (*a*) 30 | .. | 597 | .. | .... | |
| | | Gopuvanipalem .. | 206 | .. | .. | (*a*) 12 | 194 | .. | .... | |
| | | Kodur .. .. | 50 | .. | .. | .. | 50 | .. | .... | |
| | | Gollapalem .. .. | 390 | .. | .. | .. | 390 | .. | .... | |
| | | Weld .. .. .. | 65 | .. | .. | .. | 65 | .. | .... | |
| | | Bandar fort .. .. | 7,500 | .. | .. | .. | 7,500 | .. | .... | |
| | | Palakayatippa .. | 3,320 | .. | .. | .. | 3,320 | .. | .... | |
| | | Sorlagondi .. .. | 2,880 | .. | .. | .. | 2,880 | .. | .... | |
| | | Nachugunta .. .. | 8,640 | .. | .. | .. | 8,640 | .. | .... | |
| | | Yilachittadibba .. | 4,640 | .. | .. | .. | 4,640 | .. | .... | |
| | | Bezwada .. .. | 300 | .. | (*a*) 129 | .. | 429 | .. | .... | |
| | | Gunadala .. .. | 377 | .. | .. | .. | 377 | .. | .... | |
| | | Kondapalli .. .. | 20,722 | .. | .. | .. | 20,722 | .. | .... | |
| | | Do. extension. | 1,225 | .. | .. | .. | 1,225 | .. | .... | |
| | | Kothúr .. .. | 7,230 | .. | .. | .. | 7,230 | .. | .... | |
| | | Kondur .. .. | 4,140 | .. | .. | .. | 4,140 | .. | .... | |
| | | Velavadam .. .. | 770 | .. | .. | .. | 770 | .. | .... | |
| | | Jangalapalli .. .. | 1,013 | .. | .. | .. | 1,013 | .. | .... | |
| | | Dasullapalem .. .. | 1,260 | .. | .. | .. | 1,260 | .. | .... | |
| | | Gavaravaram .. .. | 84 | .. | .. | .. | 84 | .. | .... | |
| | | Budavada .. .. | 4,650 | .. | .. | .. | 4,650 | .. | .... | |
| | | Jaggayyapet .. .. | 4,570 | .. | .. | .. | 4,570 | .. | .... | |
| | Bezwada. | Vidamarru .. .. | 383 | .. | .. | (*a*) 2 | 381 | .. | .... | S. |
| | | Karlapudi .. .. | 903 | .. | .. | .. | 903 | .. | .... | S. |
| | | Narakodur .. .. | 517 | .. | .. | .. | 517 | .. | .... | S. |
| | | Kuragallu .. .. | 1,305 | .. | .. | (*a*) 38 | 1,267 | .. | .... | S. |
| | | Tadepalli .. .. | 2,305 | .. | .. | .. | 2,305 | .. | .... | S. |
| | | Gollamudi .. .. | 194 | .. | (*a*) 8 | .. | 202 | .. | .... | S. |
| | | Kolakalur .. .. | 1,386 | .. | .. | .. | 1,386 | .. | .... | S. |
| | | Lam .. .. .. | 1,077 | .. | (*a*) 8 | .. | 1,085 | .. | .... | S. |
| | | Chinapalakalur I .. | 206 | .. | .. | .. | 206 | .. | .... | S. |
| | | Nidumukkala .. | 688 | .. | .. | .. | 688 | .. | .... | S. |
| | | Motadaka .. .. | 318 | .. | .. | .. | 318 | .. | .... | S. |
| | | Pedamaddur .. .. | 305 | .. | .. | .. | 305 | .. | .. | S. |
| | | Kondavid .. .. | 12,857 | .. | .. | .. | 12,857 | .. | .... | S. |
| | | Do. extension 1. | 539 | .. | .. | .. | 539 | .. | .... | S. |
| | | Do. do. 2. | 257 | .. | (*a*) 1 | .. | 258 | .. | .... | S. |
| | Sattenapalle. | Koranki .. .. | 3,600 | .. | .. | .. | 3,600 | .. | .... | |
| | | Madinapad .. .. | 9,600 | .. | .. | .. | 9,600 | .. | .... | |
| | | Tangeda .. .. | 1,395 | .. | .. | .. | 1,395 | .. | .... | |
| | | Bellamkonda .. .. | 1,321 | .. | .. | .. | 1,321 | .. | .... | |
| | | Venkatayapalem .. | 40,566 | .. | .. | .. | 40,566 | .. | .... | |
| | | Do. extension 1. | 3,000 | .. | .. | .. | 3,000 | .. | .... | |
| | | Nevalipuri .. .. | 11,500 | .. | .. | .. | 11,500 | .. | .... | |
| | | Bollapalli .. .. | 40,000 | .. | .. | .. | 40,000 | .. | .... | |
| | | Do. extension 1. | 737 | .. | .. | .. | 737 | .. | .... | |
| | | Kakirala I .. .. | 13,120 | .. | .. | .. | 13,120 | .. | .... | |
| | | Guttikonda .. .. | 37,760 | .. | .. | .. | 37,760 | .. | .... | |
| | | Koppukonda .. .. | 5,000 | .. | .. | (*a*) 273 | 4,727 | .. | .... | |
| | | Garladinne .. .. | 515 | .. | .. | .. | 515 | .. | .... | |
| | | Gokanakonda .. | 328 | .. | .. | .. | 328 | .. | .... | |
| | Vinukonda. | Boggaram .. .. | .. | .. | 58 | .. | 58 | .. | No. 368 of 5th July 1895. | |
| | | Bollapalli extension 6. | .. | .. | 807 | .. | 807 | .. | No. 417 of 31st July 1895. | |
| | | Kakirala do. 6. | .. | .. | 1,800 | .. | 1,800 | .. | No. 82 of 11th Feb. 1896. | |
| | | Ramudupalem .. | .. | .. | 720 | .. | 720 | .. | No. 115 of 4th Mar. 1896. | |
| | | Bollapalli extension 5. | .. | .. | 740 | .. | 740 | .. | No. 140 of 20th Mar. 1896. | |

(*a*) Rectification of area. S. = Temporarily transferred from Sattenapalle range.

## Area of reserved forests, 1895–96 --*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Northern Circle*—cont. | | | | | | | | | | |
| Kistna —*cont.* | Vinukonda —*cont.* | Nayanipalem block II. | .. | .. | 180 | .. | 180 | .. | No. 168 of 30th Mar. 1896. | |
| | | Kopparam II .. .. | 659 | .. | .. | .. | 659 | .. | .... | |
| | | Yellamanda I .. | 510 | .. | .. | (*a*) 12 | 498 | .. | .... | |
| | | Gorripad .. .. | .. | .. | 1,067 | .. | 1,067 | .. | .... | |
| | | Bobbepalli .. .. | 359 | .. | .. | .. | 359 | .. | .... | |
| | | Dronadula .. .. | 255 | .. | .. | .. | 255 | .. | .... | |
| | | Kakirala extension I. | .. | .. | 222 | .. | 222 | .. | .... | |
| | Palnad .. | Tummurukodu I .. | 24 | .. | .. | .. | 24 | .. | .... | |
| | | Gangalagunta .. | 24,461 | .. | .. | (*a*) 6,802 | 17,659 | .. | .... | |
| | | Pasvimula .. .. | 22,782 | .. | .. | .. | 22,782 | .. | .... | |
| | | Kandlagunta .. .. | 34,947 | .. | .. | .. | 34,947 | .. | .... | |
| | | Mutukur .. .. | 31,105 | .. | .. | .. | 31,105 | .. | .... | |
| | | Do. I .. .. | 255 | .. | .. | .. | 255 | .. | .... | |
| | | Kakirala II .. .. | 4,400 | .. | .. | .. | 4,400 | .. | .... | |
| | | Tummurukodu III .. | 3,730 | .. | .. | .. | 3,730 | .. | .... | |
| | | Mutukur extension 2. | .. | .. | 540 | .. | 540 | .. | No. 526 of 23rd Sept. 1895. | |
| | Bápatla .. | Lankavanidibba .. | 2,850 | .. | .. | .. | 2,850 | .. | .... | |
| | | Kothapalem I .. | 3,840 | .. | .. | .. | 3,840 | .. | .... | |
| | | Kothapalem II .. | 1,907 | .. | .. | .. | 1,907 | .. | .... | |
| | | Dindi .. .. | 600 | .. | .. | 486 | 114 | .. | .... | |
| | | Adavuladivi .. .. | 536 | .. | .. | .. | 536 | .. | .... | |
| | | Orr .. .. .. | 123 | .. | .. | .. | 123 | .. | .... | |
| | | Bapatla I and II .. | 1,332 | .. | .. | .. | 1,332 | .. | .... | |
| | | Karlapalem I and II. | 297 | .. | .. | .. | 297 | .. | .... | |
| | | Vedullapalli and extension 1. | 176 | .. | .. | .. | 176 | .. | .... | |
| | | Muthayapalem .. | 9,569 | .. | 85 | .. | 9,654 | .. | .... | |
| | | Pandillapalli .. | 162 | .. | .. | .. | 162 | .. | .... | |
| | | Waderevu .. .. | 82 | .. | .. | .. | 82 | .. | .... | |
| | | Nayanipalli I .. | 152 | .. | .. | .. | 152 | .. | .... | |
| | | Total .. | 411,588 | 643 | 6,402 | 7,633 | 410,357 | 641 | | |
| Kurnool. | Sirvel .. | Sirvel .. .. .. | 116,730 | .. | .. | (*a*) 15,358 | *101,372 | .. | .... | |
| | Cumbum. | Veligondas, South .. | 16,755 | .. | .. | .. | 16,755 | .. | .... | |
| | | Do. North .. | 21,540 | .. | .. | .. | 21,540 | .. | .... | |
| | | Uyyalvada .. .. | 76,800 | .. | .. | (*a*) 33,513 | * 43,287 | .. | .... | |
| | Cumbum Markapur. | Cumbum .. .. | 217,600 | .. | .. | (*a*) 9,465 | 208,135 | .. | .... | |
| | Nandyal Nandikotkur and Sirvel. | Nandyal .. .. | 186,700 | .. | .. | (*a*) 1,995 | *183.705 | .. | .... | |
| | Nandikotkur | Nandikotkur .. | 256,000 | .. | (*a*)60,331 | .. | *316,331 | .. | .... | |
| | Ramallakota. | Ramallakota, East .. | 1,920 | .. | .. | .. | * 1,920 | .. | .... | |
| | | Do. West .. | 2,800 | .. | .. | .. | * 2,800 | .. | .... | |
| | | Langabunda .. | 3,950 | .. | .. | .. | * 3,950 | .. | .... | |
| | | Yaperlapad .. .. | 3,384 | .. | .. | .. | * 3,384 | .. | .... | |
| | | Gadidimadugu .. | 2,891 | .. | .. | .. | * 2,891 | .. | .... | |
| | Markapur. | Markapur .. .. | 181,875 | .. | .. | .. | 181,875 | .. | .... | |
| | Cumbum. | Western Veligondas. | 17,780 | .. | .. | .. | 17,780 | .. | .... | |
| | Ramallakot. | South Dhone .. | 3,989 | .. | .. | .. | 3,989 | .. | .... | |
| | Pattikonda. | Pyapali .. .. | 1,290 | .. | .. | (*a*) 64 | * 1,226 | .. | .... | |
| | Markapur. | Buddivid .. .. | 1,002 | .. | .. | .. | * 1,002 | .. | .... | |
| | Pattikonda | Tekulakonda .. | .. | .. | 715 | .. | 715 | .. | No. 240 of 14th May 1895. | |
| | | Kappatralla .. .. | .. | .. | 3,029 | .. | * 3,029 | .. | No. 605 of 19th November 1895 | |
| | Sirvel .. | Kotakonda .. .. | .. | .. | 1,657 | .. | * 1,657 | .. | No. 604 of 19th November 1895. | |
| | Pattikonda. | Karumanchi, No. I .. | .. | .. | 1,074 | .. | * 1,074 | .. | No. 117 of 10th Marâh 1896. | |
| | | Do. No. II .. | .. | .. | 416 | .. | * 416 | .. | | |
| | | Total .. | 1,112,006 | 1,737 | 67,222 | 60,395 | 1,118,833 | 1,748 | | |
| Bellary .. | Bellary .. | Bellary .. .. | 8,000 | .. | (*a*)2,152 | .. | 10,152 | .. | .... | |
| | | Minchery .. .. | 4,000 | .. | .. | .. | 4,000 | .. | .... | |
| | | Rayadrug .. .. | 6,000 | .. | .. | .. | 6,000 | .. | .... | |
| | | Aduguppa .. | 950 | .. | .. | .. | 950 | .. | .... | |
| | | Kurugadu W. .. | 750 | .. | (*a*) 89 | .. | 839 | .. | .... | |
| | | Do. N.W. .. | 250 | .. | .. | (*a*) 41 | 209 | .. | .... | |
| | | Tekkalakota .. .. | 600 | .. | .. | .. | 600 | .. | .... | |
| | | Halekota .. .. | 640 | .. | (*a*) 203 | .. | 843 | .. | .... | |
| | | Dharmapuri .. .. | 4,100 | .. | .. | .. | 4,100 | .. | .... | |

(*a*) Rectification of area. * Correct areas.

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Northern Circle*—cont. | | | | | | | | | | |
| Bellary—*cont.* | | Suguru | 530 | .. | (a) 31 | .. | 561 | .. | .... | |
| | | Nadivi | 425 | .. | (a) 5 | .. | 430 | .. | .... | |
| | | Vonnahalli | 105 | .. | (a) 8 | .. | 113 | .. | .... | |
| | | Mundrigi | 48 | .. | (a) 3 | .. | 51 | .. | .... | |
| | | Udegolam | .. | .. | (a) 440 | .. | 440 | . | No. 633 of 11th Dec. 1895. | |
| | | Kontalahalli | .. | .. | (a)1,073 | .. | 1,073 | .. | No. 232 of 7th May 1895. | |
| | | Virapuram B | .. | .. | (a)3,429 | .. | 3,429 | .. | No. 118 of 10th Mar. 1896. | |
| | | Upparahosahalli | 1,037 | .. | .. | .. | 1,037 | .. | .... | |
| | | Mechery | .. | .. | (a)1,561 | .. | 1,561 | .. | No. 378 of 16th July 1895. | |
| | | Mallapuram A | .. | .. | (a)1,562 | .. | 1,562 | .. | No. 528 of 24th Sept. 1895. | |
| | | Badhehalu | 940 | .. | (a) 4 | .. | 944 | .. | .... | |
| | | Halwi | 1,200 | .. | .. | .. | 1,200 | .. | .... | |
| | | Halekota | 428 | .. | .. | .. | 428 | .. | .... | |
| | | Gummanoor N.W. | | | | | | | | |
| | | Do. N.E. | 659 | .. | .. | .. | 659 | .. | .... | |
| | | Do. N. | | | | | | | | |
| | | Degulahalu | 110 | .. | .. | .. | 110 | .. | .... | |
| | | Yeruru S.W. | | | | | | | | |
| | | Do. S. | 520 | .. | .. | .. | 520 | .. | .... | |
| | | Do. W | | | | | | | | |
| | | Adoni E. | 1,834 | .. | .. | (a) 88 | 1,746 | .. | .... | |
| | | Do. W. | 3,165 | .. | .. | (a) 28 | 3,137 | .. | .... | |
| | | Ganekallu | 1,074 | .. | .. | .. | 1,074 | .. | .... | |
| | | Katalam | 658 | .. | .. | .. | 658 | .. | .... | |
| | | Sulikeri | .. | .. | 1,337 | .. | 1,337 | .. | No. 446 of 20th Aug. 1895. | |
| | | Tungabhadra | .. | .. | 2,577 | .. | 2,577 | .. | No. 623 of 3rd Dec. 1895. | |
| | | Nandavaram | 957 | .. | .. | .. | 957 | .. | .... | |
| | | Rayachoti I, II and III. | 1,585 | .. | (a) 54 | .. | 1,639 | .. | No. 457 of 27th Aug. 1895. | |
| | | Kadimetla A and C | .. | .. | 1,992 | .. | 1,992 | .. | .... | |
| Bellary—*cont.* | Adóni | Banavasi | 2,180 | .. | .. | .. | 2,180 | .. | .... | |
| | | Kotakallu | 2,586 | .. | .. | .. | 2,586 | .. | .... | |
| | | Kadaburu | .. | .. | 2,514 | .. | 2,514 | .. | No. 429 of 13th Aug. 1895. | |
| | | Ramadurgam konda. | 337 | .. | .. | (a) 35 | 302 | .. | .... | |
| | | Kanchagarabelagallu. | 856 | .. | (a) 467 | .. | 1,323 | .. | .... | |
| | | Mudatamagi | 317 | .. | (a) 297 | .. | 614 | .. | .... | |
| | | Holalagundi | 906 | .. | .. | (a) 138 | 768 | .. | .... | |
| | | Virupapuram | 110 | .. | (a) 25 | .. | 135 | .. | .... | |
| | | Pagalachukka vanka. | 241 | .. | .. | (a) 1 | 240 | .. | .... | |
| | | Nagaradona | 140 | .. | (a) 9 | .. | 149 | .. | .... | |
| | | Bilehalu | 906 | .. | .. | (a) 66 | 840 | .. | .... | |
| | | Chinnakadaburu | 668 | .. | (a) 9 | .. | 677 | .. | .... | |
| | | Halabarivi | 820 | .. | .. | (a) 55 | 765 | .. | .... | |
| | | Dibbanakallu | 833 | .. | .. | .. | 833 | .. | .... | |
| | | Basapuram | 149 | .. | .. | .. | 149 | .. | .... | |
| | | Belagallu | .. | .. | 721 | .. | 721 | .. | No. 167 of 7th Apr. 1896. | |
| | | Isivi | .. | .. | 863 | .. | 863 | .. | No. 295 of 11th June 1895. | |
| | | Naulikallu A and B | .. | .. | 815 | .. | 815 | .. | No. 83 of 18th Feb. 1896. | |
| | | Kupgallu addition | 541 | .. | .. | .. | 541 | .. | .... | |
| | | Dibbanakallu extension. | .. | .. | 197 | .. | 197 | .. | No. 296 of 11th June 1895. | |
| | | Chippigiri W. | | | | | | | | |
| | | Do. S. | 1,159 | .. | .. | .. | 1,159 | .. | .... | |
| | | Do. S. E. | | | | | | | | |
| | | Gundu | 5,456 | .. | .. | .. | 5,456 | .. | .... | |
| | | Joga A and B | 3,264 | .. | .. | .. | 3,264 | .. | .... | |
| | Sandúr | Tumbaraguddi | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | | Gollalingammanahalli. | 1,000 | .. | .. | .. | 1,000 | .. | .... | |
| | | Somalapuram | 2,600 | .. | .. | .. | 2,600 | .. | .... | |
| | | Bandri | 16,239 | .. | .. | .. | 16,239 | .. | .... | |

(a) By rectification of area.

## Area of Reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *Northern Circle*—cont. | | | | | | | | |
| Bellary —*cont.* | Sandúr—*cont.* | Hospet | 3,030 | .. | .. | .. | 3,030 | .. | .... | |
| | | Ubbalagandi | 692 | .. | .. | .. | 692 | .. | .... | |
| | | Billakallu | 12,447 | .. | .. | .. | 12,447 | .. | .... | |
| | | Bukkasagaram | 5,987 | .. | .. | .. | 5,987 | .. | .... | |
| | | Papinayakanahalli | .. | .. | 345 | .. | 345 | .. | No. 297 of 11th June 1895. | |
| | | Joga block C. | 1,435 | .. | .. | .. | 1,435 | .. | .... | |
| | | Do. N. W. | 2,674 | .. | .. | .. | 2,674 | .. | .... | |
| | | Billakallu S. W. | .. | .. | 3,110 | .. | 3,110 | .. | No. 451 of 20th Aug. 1895. | |
| | | Toranagallu | 2,100 | .. | .. | (*a*) 747 | 1,353 | .. | .... | |
| | | Timmapuram | 965 | .. | (*a*) 33 | .. | 998 | .. | .... | |
| | | Chilakanabatti | 733 | .. | .. | .. | 733 | .. | .... | |
| | | Shivapuram | 9,000 | .. | .. | .. | 9,000 | .. | .... | |
| | | Chiribi | 3,000 | .. | .. | .. | 3,000 | .. | .... | |
| | | Sunkadakallu | 7,000 | .. | .. | .. | 7,000 | .. | .... | |
| | | Hyrada | 16,400 | .. | .. | .. | 16,400 | .. | .... | |
| | | Sogi | 4,200 | .. | .. | .. | 4,200 | .. | .... | |
| | | Jittinagutta | 12,244 | .. | .. | .. | 12,244 | .. | .... | |
| | | Jangikalgutta | 12,882 | .. | .. | .. | 12,882 | .. | .... | |
| | | Alagilavada | 1,900 | .. | .. | .. | 1,900 | .. | .... | |
| | | Uchangidurgam | 4,200 | .. | .. | .. | 4,200 | .. | .... | |
| | | Banivikallu | 3,564 | .. | .. | .. | 3,564 | .. | .... | |
| | | Gudekota | .. | .. | 6,994 | .. | 6,994 | .. | No. 564 of 29th Oct. 1895. | |
| | | Nimbalagiri | 4,792 | .. | .. | .. | 4,792 | .. | .... | |
| | | Sunkadakallu E. | 843 | .. | .. | .. | 843 | .. | .... | |
| | | Ramadurgam | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | | Kakkuppi | 9,000 | .. | .. | .. | 9,000 | .. | .... | |
| | | Keriyaginahalli | 3,122 | .. | .. | .. | 3,122 | .. | .... | |
| | | Kakkuppi N. E. extension. | 1,490 | .. | .. | .. | 1,490 | .. | .... | |
| | | Kakkuppi S. E. extension. | 442 | .. | .. | .. | 442 | .. | .... | |
| | | Banivikallu N. E. | 1,535 | .. | .. | .. | 1,535 | .. | .... | |
| | | Shivapuram extension. | 5,961 | .. | .. | .. | 5,961 | .. | .... | |
| | | Tumbinakeri | 1,946 | .. | .. | .. | 1,946 | .. | .... | |
| | | Koyilaragatti | .. | .. | 1,899 | .. | 1,899 | .. | No. 234 of 7th May 1895. | |
| | Kudligi range. | Chiribi extension | 5,528 | .. | .. | .. | 5,528 | .. | .... | |
| | | Alagilavada A and B. | .. | .. | 1,720 | .. | 1,720 | .. | No. 380 of 16th July 1895. | |
| | | Sogi North extension. | 230 | .. | 463 | .. | 463 | .. | No. 231 of 7th May 1895. | |
| | | Do. South | .. | .. | .. | .. | 230 | .. | .... | |
| | | Do. North-west | 308 | .. | .. | .. | 308 | .. | .... | |
| | | Nimbalagiri, North | 299 | .. | .. | .. | 299 | .. | .... | |
| | | Do. West | 630 | .. | .. | .. | 630 | .. | .... | |
| | | Do. North-east. | 1,775 | .. | .. | .. | 1,775 | .. | .... | |
| | | Sunkadakallu, North west. | 450 | .. | .. | .. | 450 | .. | .... | |
| | | Sunkadakallu, South and West. | .. | .. | 6,314 | .. | 6,314 | .. | No. 233 of 7th May 1895. | |
| | | Sunkadakallu East | 759 | .. | .. | .. | 759 | .. | .... | |
| | | Nilagunda | .. | .. | 1,847 | .. | 1,847 | .. | No. 312 of 11th June 1895. | |
| | | Bennikallu | .. | .. | 7,723 | .. | 7,723 | .. | No. 324 of 18th June 1895. | |
| | | Tagarikatti | .. | .. | 3,948 | .. | 3,948 | .. | No. 301 of 11th June 1895. | |
| | | Garbhagadi | .. | .. | 685 | .. | 685 | .. | No. 533 of 1st October 1895. | |
| | | Adivi Mallapuram | .. | .. | 935 | .. | 935 | .. | No. 313 of 11th June 1895. | |
| | | Alamarshikeri | .. | .. | 983 | .. | 983 | .. | No. 352 of 2nd July 1895. | |
| | | Harivi | .. | .. | 638 | .. | 638 | .. | No. 359 of 2nd July 1895. | |
| | Sandúr | Toranagallu | 2,100 | .. | .. | (*a*) 747 | 1,353 | .. | .... | |
| | | Timmapuram | 965 | .. | (*a*) 33 | .. | 998 | .. | .... | |
| | | Chilakanabatti | 733 | .. | .. | .. | 733 | .. | .... | |
| | | Total | 230,436 | 360 | 60,074 | 1,199 | 289,311 | 452 | | |

(*a*) By rectification of area.

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Northern Circle*—cont. | | | | | | | | | |
| Anantapur. | Gooty .. | Khojjapalle .. .. | 342 | .. | .. | .. | 342 | .. | .... | |
| | | Pamidi .. .. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Guntakal No. I .. | 384 | .. | .. | .. | 384 | .. | .... | |
| | | Do. ,, II .. | 165 | .. | .. | .. | 165 | .. | .... | |
| | | Do. ,, III .. | 384 | .. | .. | .. | 384 | .. | .... | |
| | | Peddaboddi .. .. | 2,479 | .. | .. | .. | 2,479 | .. | .... | |
| | | Bhadrampalli .. | 4,226 | .. | .. | .. | 4,226 | .. | .... | |
| | | Tarimela .. .. | 11,574 | .. | .. | .. | 11,574 | .. | .... | |
| | | Penakacherla B-I .. | 289 | .. | .. | .. | 289 | .. | .... | |
| | | Katrineal, E. and W. | 12,232 | .. | .. | .. | 12,232 | .. | .... | |
| | | Nagasamudram, N. and S. | 11,731 | .. | .. | .. | 11,731 | .. | .... | |
| | | Panakacherla B-II .. | 373 | .. | .. | .. | 373 | .. | .... | |
| | | Marutla .. .. | 12,956 | .. | .. | .. | 12,956 | .. | .... | |
| | | Jakkalacheruvu .. | 2,468 | .. | .. | .. | 2,468 | .. | .... | |
| | | Illur .. .. .. | 1,293 | .. | .. | .. | 1,293 | .. | .... | |
| | | Teliki .. .. .. | 891 | .. | .. | .. | 891 | .. | .... | |
| | | Kristipad .. .. | 869 | .. | .. | .. | 869 | .. | .... | |
| | | Koppulakonda .. | 738 | .. | .. | .. | 738 | .. | .... | |
| | | Ravuladiki .. .. | 2,021 | .. | .. | .. | 2,021 | .. | .... | |
| | | Malakatulla .. .. | 3,855 | .. | .. | .. | 3,855 | .. | .... | |
| | | Kanumpalli .. .. | .. | .. | 2,216 | .. | 2,216 | .. | No. 64 of 8th Feb. 1896. | |
| | Muchukota. | Anantapur .. .. | 129 | .. | .. | .. | 129 | .. | .... | |
| | | Durgam .. .. | 3,640 | .. | .. | .. | 3,640 | .. | .... | |
| | | Kunukuntla .. .. | 1,616 | .. | .. | .. | 1,616 | .. | .... | |
| | | Chillavaripalli .. | 4,980 | .. | .. | .. | 4,980 | .. | .... | |
| | | Doditota .. .. | 3,634 | .. | .. | .. | 3,634 | .. | .... | |
| | | Neriyampalli .. .. | 2,285 | .. | .. | .. | 2,285 | .. | .... | |
| | | Yellutla .. .. | 9,182 | .. | .. | .. | 9,182 | .. | .... | |
| | | Upparapalli .. .. | 782 | .. | .. | .. | 782 | .. | .... | |
| | | Yediki .. .. | 9,676 | .. | .. | .. | 9,676 | .. | .... | |
| | | Yellavur .. .. | 1,156 | .. | .. | .. | 1,156 | .. | .... | |
| | | Kuderu .. .. | 10,711 | .. | .. | .. | 10,711 | .. | .... | |
| | | Muchukota .. .. | .. | .. | 21,759 | .. | 21,759 | .. | No. 531 of 20th Aug. 1895. | |
| | Dharmavaram. | Boodikonda A and B. | 1,275 | .. | .. | .. | 1,275 | .. | .... | |
| | | Bhadrapur .. .. | 3,347 | .. | .. | .. | 3,347 | .. | .... | |
| | | Kalyandrug, North .. | 1,471 | .. | .. | .. | 1,471 | .. | .... | |
| | | Do. South .. | | | | | | | | |
| | | Nyalakota .. .. | 12,156 | .. | .. | .. | 12,156 | .. | .... | |
| | | Gutlur .. .. | 7,761 | .. | .. | .. | 7,761 | .. | .... | |
| | | Ramagiri .. .. | 9,527 | .. | .. | .. | 9,527 | .. | .... | |
| | | Shiripi .. .. | .. | .. | 822 | .. | 822 | .. | No. 591 of 12th Nov. 1895. | |
| | Penukonda. | Narasampalli .. .. | 2,210 | .. | .. | .. | 2,210 | .. | .... | |
| | | Kottakota .. .. | 11,016 | .. | .. | .. | 11,016 | .. | .... | |
| | | Neiradykonda .. | 2,217 | .. | .. | .. | 2,217 | .. | .... | |
| | | Agraharam .. .. | 2,134 | .. | .. | .. | 2,134 | .. | .... | |
| | | Vengalammacheruvu. | 2,371 | .. | .. | .. | 2,371 | .. | .... | |
| | | Mallapakonda .. | 4,370 | .. | .. | .. | 4,370 | .. | .... | |
| | | Mallakaveimlakonda. | 2,285 | .. | .. | .. | 2,285 | .. | .... | |
| | | Somandapalli .. .. | 9,782 | .. | .. | .. | 9,782 | .. | .... | |
| | | Yerlampalli .. .. | 2,959 | .. | .. | .. | 2,959 | .. | .... | |
| | | Cherlapani .. .. | 1,576 | .. | .. | .. | 1,576 | .. | .... | |
| | | Janniavalapalli .. | 6,085 | .. | .. | .. | 6,085 | .. | .... | |
| | | Elavalakonda .. | 1,833 | .. | .. | .. | 1,833 | .. | .... | |
| | | Penukonda .. .. | 4,632 | .. | .. | .. | 4,632 | .. | .... | |
| | Hindupur. | Somarajmalai .. | 2,115 | .. | .. | .. | 2,115 | .. | .... | |
| | | Kondur .. .. | 607 | .. | .. | .. | 607 | .. | .... | |
| | | Gopidevarapalli. .. | 1,884 | .. | .. | .. | 1,884 | .. | .... | |
| | | Dokkalakonda .. | 7,420 | .. | .. | .. | 7,420 | .. | .... | |
| | | Yerrakonda .. .. | 7,729 | .. | .. | .. | 7,729 | .. | .... | |
| | | Amagondapaliem .. | 15,360 | .. | .. | .. | 15,360 | .. | .... | |
| | | Sankarakallu, North. | 402 | .. | .. | .. | 402 | .. | .... | |
| | | Madakasira, South B-I and II. | 963 | .. | .. | .. | 963 | .. | .... | |
| | Madakasira. | Kakathi .. .. | .. | .. | 2,470 | .. | 2,470 | .. | No. 279 of 18th May 1895. | |
| | | Gundumala .. .. | .. | .. | 5,344 | .. | 5,344 | .. | No. 65 of 8th Feb. 1896. | |
| | | Madakasira, North .. | .. | .. | 3,473 | .. | 3,473 | .. | No. 80 of 15th Feb. 1896. | |
| | | Yerracherla .. .. | .. | .. | 1,243 | .. | 1,243 | .. | No. 144 of 19th Mar. 1896. | |
| | | Sankarakallu, South .. | .. | .. | 1,008 | .. | 1,008 | .. | No. 148 of 16th Mar. 1896. | |
| | | Total .. | 243,188 | 380 | 36,335 | .. | 281,523 | 440 | | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | | *Central Circle.* | | | | | | | | |
| Cuddapah. | Koduru .. | Koduru plantation .. | 50 | .. | .. | .. | 50 | .. | .... | |
| | | Thunakonda .. .. | 1,048 | .. | .. | .. | 1,048 | .. | .... | |
| | | Uparapalli .. .. | 108 | .. | .. | .. | 108 | .. | .... | |
| | | Koduru hill .. .. | 7,440 | .. | .. | .. | 7,440 | .. | .... | |
| | | Settikunta .. .. | 8,960 | .. | .. | .. | 8,960 | .. | .... | |
| | | Avalapenta .. .. | 1,434 | .. | .. | .. | 1,434 | .. | .... | |
| | | Gotimanikona .. | 3,732 | .. | .. | .. | 3,732 | .. | .... | |
| | | Muslitiyeru .. .. | 6,432 | .. | .. | .. | 6,432 | .. | .... | |
| | | Chiyyavaram .. | 2,666 | .. | .. | .. | 2,666 | .. | .... | |
| | | Reddipalli plantation. | 1,415 | .. | .. | .. | 1,415 | .. | .... | |
| | | Kodivengammah bhavi. | 3,788 | .. | .. | .. | 3,788 | .. | .... | |
| | | Reddipalli extension. | .. | .. | 458 | .. | 458 | .. | No. 592 of 2nd Nov. 1895. | |
| | Rajampet and Koduru. | Salivendra .. .. | 12,800 | .. | .. | .. | 12,800 | .. | .... | |
| | | Citvel .. .. | 4,571 | .. | .. | .. | 4,571 | .. | .... | |
| | Rajampet. | Pullampet plantation. | 426 | .. | .. | .. | 426 | .. | .... | |
| | | Vattalur .. .. | 2,880 | .. | .. | .. | 2,880 | .. | .... | |
| | | Budaguntapalli .. | 1,538 | .. | .. | .. | 1,538 | .. | .... | |
| | | Tippayapalli .. .. | 334 | .. | .. | .. | 334 | .. | .... | |
| | | Murriutla .. .. | .. | .. | 5,539 | .. | 5,539 | .. | No. 265 of 15th May 1895. | |
| | Sidhout and Cuddapah. | Konamalapalli .. | 4,435 | .. | .. | .. | 4,435 | .. | .... | |
| | Sidhout .. | Malliamkonda .. | 10,240 | .. | .. | .. | 10,240 | .. | .... | |
| | | Vontimitta .. .. | 4,500 | .. | .. | .. | 4,500 | .. | .... | |
| | | Konarazupalli .. | 9,696 | .. | .. | .. | 9,696 | .. | .... | |
| | | Ramapuram .. .. | 5,300 | .. | .. | .. | 5,300 | .. | .... | |
| | | Malliamkonda addition. | 906 | .. | .. | .. | 906 | .. | .... | |
| | | Ramapuram extension | 2,613 | .. | .. | .. | 2,613 | .. | .... | |
| | | Turupukonda .. | 8,378 | .. | .. | .. | 8,378 | .. | .... | |
| | Cuddapah. | Kamalapuram plantation. | 561 | .. | .. | .. | 561 | .. | .... | |
| | | Gonumakulapalli .. | 1,280 | .. | .. | .. | 1,280 | .. | .... | |
| | | Tummalur .. .. | 1,450 | .. | .. | .. | 1,450 | .. | .... | |
| | | Kommaddi .. .. | 684 | .. | .. | .. | 684 | .. | .... | |
| | | Ganganapalli .. | .. | .. | 19,232 | .. | 19,232 | .. | No. 294 of 27th May 1895. | |
| | | Idupalapaya palmyra plantation. | .. | .. | 653 | .. | 653 | .. | No. 611 of 19th Nov. 1895. | |
| | Badvel .. | Kavalakuntla north and south. | 10,142 | .. | .. | .. | 10,142 | .. | .... | |
| | | Ganugapenta .. | 11,577 | .. | .. | .. | 11,577 | .. | .... | |
| | | Gopavaram .. .. | 7,950 | .. | .. | .. | 7,950 | .. | .... | |
| | | Do. extension. | 4,980 | .. | .. | .. | 4,980 | .. | .... | |
| | | Sancherla .. .. | 5,248 | .. | .. | .. | 5,248 | .. | .... | |
| | | Kalasapad .. .. | 5,111 | .. | .. | .. | 5,111 | .. | .... | |
| | | Kottakota .. .. | .. | .. | 38,742 | .. | 38,742 | .. | No. 338 of 12th June 1895. | |
| | | Kavalakuntla extension. | .. | .. | 4,333 | .. | 4,333 | .. | No. 114 of 4th Mar. 1896. | |
| | Ráyachóti and Rajampet. | Gadikota .. .. | 12,462 | .. | .. | .. | 12,462 | .. | .... | |
| | | Yerrakonda (north and south). | 7,515 | .. | .. | .. | 7,515 | .. | .... | |
| | | Yerrakonda extension. | .. | .. | 11,996 | .. | 11,996 | .. | No. 447 of 18th Aug. 1895. | |
| | Ráyachóti. | Sibóyala .. .. | 3,500 | .. | .. | .. | 3,500 | .. | .... | |
| | | Tsundapalle .. .. | 3,000 | .. | .. | .. | 3,000 | .. | .... | |
| | | Vandadi hill .. .. | 3,390 | .. | .. | .. | 3,390 | .. | .... | |
| | | Madhavaram .. | 4,681 | .. | .. | .. | 4,681 | .. | .... | |
| | | Polymyrapalli .. | .. | .. | 1,702 | .. | 1,702 | .. | No. 440 of 13th Aug. 1895. | |
| | | Hasanapuram .. | .. | .. | 286 | .. | 286 | .. | No. 514 of 9th Sept. 1895. | |
| | | Mudumpad slopes .. | .. | .. | 9,024 | .. | 9,024 | .. | No. 84 of 11th Feb. 1896. | |
| | Vayalpad. | Yellutla .. .. | 3,433 | .. | .. | .. | 3,433 | .. | .... | |
| | | Doddipalli .. .. | 1,981 | .. | .. | .. | 1,981 | .. | .... | |
| | | Peddamallela .. | 3,698 | .. | .. | .. | 3,698 | .. | .... | |
| | | Ankalammakonda .. | 4,640 | .. | .. | .. | 4,640 | .. | .... | |
| | | Bhakarapet .. .. | 10,600 | .. | .. | .. | 10,600 | .. | .... | |
| | | Talakonda .. .. | 18,900 | .. | .. | .. | 18,900 | .. | .... | |
| | | Sorrakayalapet .. | 2,832 | .. | .. | .. | 2,832 | .. | .... | |
| | | Piler .. .. .. | 396 | .. | .. | .. | 396 | .. | .... | |
| | | Pattigadda .. .. | 300 | .. | .. | .. | 300 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Central Circle*—cont. | | | | | | | | | |
| Cuddapah—*cont.* | Vayalpad—*cont.* | Vayalpad | 215 | .. | .. | .. | 215 | .. | .... | |
| | | Marrella, Gaggibuchikona, Yerramoralagiddi. | 18,180 | .. | .. | .. | 18,180 | .. | .... | |
| | | Sorrakayalapet extension. | .. | .. | 740 | .. | 740 | .. | No. 350 of 22nd June 1895. | |
| | Madanapalle. | Kotammakonda | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Madhanikonda | 1,750 | .. | .. | .. | 1,750 | .. | .... | |
| | | Nallakonda | 3,856 | .. | .. | .. | 3,856 | .. | .... | |
| | | Kukkarajupalle | 1,660 | .. | .. | .. | 1,660 | .. | .... | |
| | | Pulikonda | 2,460 | .. | .. | .. | 2,460 | .. | .... | |
| | | Mothugamalai | 2,674 | .. | .. | .. | 2,674 | .. | .... | |
| | | Potapolu | 264 | .. | .. | .. | 264 | .. | .... | |
| | | Pentsupadu | 2,870 | .. | .. | .. | 2,870 | .. | .... | |
| | | Avalakonda | 7,700 | .. | .. | .. | 7,700 | .. | .... | |
| | | Tavalam | 8,450 | .. | .. | .. | 8,450 | .. | .... | |
| | | Horsleykonda, Mudimadugu. | 15,500 | .. | .. | .. | 15,500 | .. | .... | |
| | | Tsadukonda | 15,023 | .. | .. | .. | 15,023 | .. | .... | |
| | | Chinnatippasamudram | 432 | .. | .. | .. | 432 | .. | .... | |
| | | Kurubalakota | 348 | .. | .. | .. | 348 | .. | .... | |
| | | Batlapur | 956 | .. | .. | .. | 956 | .. | .... | |
| | | Vellichellamala | 3,560 | .. | .. | .. | 3,560 | .. | .... | |
| | | Mudupulajuvvi | 1,226 | .. | .. | .. | 1,226 | .. | .... | |
| | | Kukkarazukonda | 2,720 | .. | .. | .. | 2,720 | .. | .... | |
| | | Tummala | 24,097 | .. | .. | .. | 24,097 | .. | .... | |
| | | Niggadi | 27,770 | .. | .. | .. | 27,770 | .. | .... | |
| | | Somarazumulai, east | 910 | .. | .. | .. | 910 | .. | .... | |
| | | Tummalamala | 8,210 | .. | .. | .. | 8,210 | .. | .... | |
| | | Kondakamerla | 4,113 | .. | .. | .. | 4,113 | .. | .... | |
| | Kadiri | Nallamasettipalle | 298 | .. | .. | .. | 298 | .. | .... | |
| | | Mudigubba | 441 | .. | .. | .. | 441 | .. | .... | |
| | | Balasamudram | 245 | .. | .. | .. | 245 | .. | .... | |
| | | Ganjepalle | 228 | .. | .. | .. | 228 | .. | .... | |
| | | Goddavelugalu | 2,488 | .. | .. | .. | 2,488 | .. | .... | |
| | | Malkavemala | 2,760 | .. | .. | .. | 2,760 | .. | .... | |
| | | Kadiri | 5,420 | .. | .. | .. | 5,420 | .. | .... | |
| | | Kutagulla | 718 | .. | .. | .. | 718 | .. | .... | |
| | | Nagareddipalli | 694 | .. | .. | .. | 694 | .. | .... | |
| | | Kokkanty | 9,373 | .. | .. | .. | 9,373 | .. | .... | |
| | Proddatur. | Dodiyam | 1,800 | .. | .. | .. | 1,800 | .. | .... | |
| | | Yamavaram | 1,600 | .. | .. | .. | 1,600 | .. | .... | |
| | | Kondasunkerla | 2,612 | .. | .. | .. | 2,612 | .. | .... | |
| | | Kosinepalle | 7,040 | .. | .. | .. | 7,040 | .. | .... | |
| | | Malamida Kambaladinne. | 3,440 | .. | .. | .. | 3,440 | .. | .... | |
| | | Pennér | 520 | .. | .. | .. | 520 | .. | .... | |
| | | Dabbadopalli | 1,950 | .. | .. | .. | 1,950 | .. | .... | |
| | | Gandikota (north and south). | 6,408 | .. | .. | .. | 6,408 | .. | .... | |
| | | Pallavole | .. | .. | 809 | .. | 809 | .. | No. 108 of 4th March 1896. | |
| | | Chapad | .. | .. | 809 | .. | 809 | .. | No. 108 of 4th March 1896. | |
| | Vayalpad and Madanapalle. | Guttapalem | 2,522 | .. | .. | .. | 2,522 | .. | .... | |
| | | Nurukuppalakonda | 8,461 | .. | .. | .. | 8,461 | .. | .... | |
| | | Tarigoda | 6,831 | .. | .. | .. | 6,831 | .. | .... | |
| | Cuddapah and Kadiri. | Dorigalu | 24,032 | .. | .. | .. | 24,032 | .. | .... | |
| | | Gorivikanama | 30,560 | .. | .. | .. | 30,560 | .. | .... | |
| | Rayachóti and Vayalpad. | Urukonda | 7,986 | .. | .. | .. | 7,986 | .. | .... | |
| | Rajampet and Sidhout. | Kottur | 12,160 | .. | .. | .. | 12,160 | .. | .... | |
| | | Kanakalakonda | 2,641 | .. | .. | .. | 2,641 | .. | .... | |
| | | Patur | 3,334 | .. | .. | .. | 3,334 | .. | .... | |
| | | Cheyur | 1,900 | .. | .. | .. | 1,900 | .. | .... | |
| | | Kokiletikanama | 4,609 | .. | .. | .. | 4,609 | .. | .... | |
| | Badvel and Proddatur. | Kanchalamoram | 9,678 | .. | .. | .. | 9,678 | .. | .... | |
| | | Dasaripalli | .. | .. | 55,662 | .. | 55,662 | .. | No. 338 of 12th June 1895. | |
| | Proddatur and Cuddapah. | Kondapuram | 1,977 | .. | .. | .. | 1,977 | .. | .... | |
| | | Mallela, north and south. | 3,754 | .. | .. | .. | 3,754 | .. | .... | |
| | | Niduzuvoi | 1,597 | .. | .. | .. | 1,597 | .. | .... | |
| | | Rameswaram | 1,044 | .. | .. | .. | 1,044 | .. | .... | |
| | | Bhanakotamala | 10,580 | .. | .. | .. | 10,580 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Central Circle*—cont. | | | | | | | | | | |
| Cuddapah—*cont.* | Kadiri and Madanapalle. | Mulakalacheruvu .. | 330 | .. | .. | .. | 330 | .. | .... | |
| | | Ishvaramalai .. | 15,360 | .. | .. | .. | 15,360 | .. | .... | |
| | Cuddapah and Rayachoti. | Idupalapaya .. .. | .. | .. | 25,020 | .. | 25,020 | .. | No. 294 of 27th May 1895. | |
| | | Redlecheruvu .. | .. | .. | 7,608 | .. | 7,608 | .. | | |
| | Sidhout, Badvel and Cuddapah. | Lankamalai .. | 70,000 | .. | .. | .. | 70,000 | .. | .... | |
| | Madanapalle. Vayalpad and Rayachoti. | Rekkalakonda .. | 8,735 | .. | .. | .. | 8,735 | .. | .... | |
| | Kodur, Rajampet, Rayachoti and Vayalpad. | Seshachallam .. | 132,701 | .. | .. | .. | 132,701 | .. | .... | |
| | | Total .. | 799,962 | 1,250 | 182,613 | .. | 982,575 | 1,535 | | |
| Nellore. | Kanigiri .. | Kothapatam casuarina plantations. | 147 | .. | .. | .. | 147 | .. | .... | |
| | | Kanuparti casuarina plantations. | 520 | .. | .. | .. | 520 | .. | .... | |
| | | Ongole Hill .. | 60 | .. | .. | .. | 60 | .. | .... | |
| | | Chimakurti Hill .. | 3,500 | .. | .. | .. | 3,500 | .. | .... | |
| | | Nandanavaram .. | 18,000 | .. | .. | .. | 18,000 | .. | .. | |
| | | Vedulla Cheruvu .. | 7,000 | .. | .. | .. | 7,000 | .. | .. | |
| | | Kanigiri Durgam .. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |
| | | Ramapatam casuarina plantations. | 60 | .. | .. | .. | 60 | .. | .... | |
| | | Chagollu A & B. .. | 1,010 | .. | .. | .. | 1,010 | .. | .... | |
| | | China Laterapi .. | 1,548 | .. | .. | .. | 1,548 | .. | .... | |
| | | Ravur .. .. | 2,187 | .. | .. | .. | 2,187 | .. | .... | |
| | | Chakicherla .. .. | 323 | .. | .. | .. | 323 | .. | .... | |
| | | Ramapatam .. .. | 1,516 | .. | .. | .. | 1,516 | .. | .... | |
| | | Baddepudi .. .. | 500 | .. | .. | .. | 500 | .. | .... | |
| | | Gudlur .. .. | 3,297 | .. | .. | .. | 3,297 | .. | .... | |
| | | Mocherla Chelamcherla. | 12,236 | .. | .. | .. | 12,236 | .. | .... | |
| | | Kallurpad .. .. | .. | .. | 600 | .. | 600 | .. | No 409 of 20th July 1895. | |
| | | Veerapalli .. .. | .. | .. | 500 | .. | 500 | .. | No. 465 of 28th August 1895. | |
| | | Chemididipad B. .. | .. | .. | 300 | .. | 300 | .. | No. 465 of 28th August 1895. | |
| | | Chevur .. .. | .. | .. | 320 | .. | 320 | .. | No. 465 of 28th August 1895. | |
| | | Karedu .. .. | .. | .. | 1,180 | .. | 1,180 | .. | No. 486 of 6th Sept. 1895. | |
| | Kavali. | Chemididipad A. .. | .. | .. | 680 | .. | 680 | .. | No. 488 of 4th Sept. 1895. | |
| | | Mocherla .. .. | .. | .. | 900 | .. | 900 | .. | No. 489 of 4th Sept. 1895. | |
| | | Potlur .. .. | .. | .. | 680 | .. | 680 | .. | No. 23 of 16th Dec. 1895. | |
| | | Gudlur, South .. | .. | .. | 1,350 | .. | 1,350 | .. | No. 46 of 22nd January 1896. | |
| | | Chagollu C. .. .. | .. | .. | 390 | .. | 390 | .. | No. 136 of 19th March 1896. | |
| | | Tummalapenta casuarina plantations. | 100 | .. | .. | .. | 100 | .. | .... | |
| | | Madduripad .. .. | 2,012 | .. | .. | .. | 2,012 | .. | .... | |
| | | Zaladanki, East .. | 600 | .. | .. | .. | 600 | .. | .... | |
| | | Tummalapenta, South. | 392 | .. | .. | .. | 392 | .. | .... | |
| | | Dharmavaram .. | 189 | .. | .. | .. | 189 | .. | .... | |
| | | Zammalapalem .. | 1,130 | .. | .. | .. | 1,130 | .. | .... | |
| | | Rudrakota .. .. | 2,100 | .. | .. | .. | 2,000 | .. | .... | |
| | | Guttapalli .. | 838 | .. | .. | .. | 838 | .. | .... | |
| | | Zaladanki, West .. | 1,254 | .. | .. | .. | 1,254 | .. | .... | |
| | | Guttapalli .. .. | 960 | .. | .. | .. | 960 | .. | .... | |
| | | Tallapalam .. | 848 | .. | .. | .. | 848 | .. | .... | |

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Central Circle*—cont. | | | | | | | | | |
| Nellore—*cont.* | Kavali—*cont.* | Manubolupad .. | 1,192 | .. | .. | .. | 1,192 | .. | .... | |
| | | China Annalur .. | 3,400 | .. | .. | .. | 3,400 | .. | .... | |
| | | Kavali .. .. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |
| | | Dundigam .. | 515 | .. | .. | .. | 515 | .. | .... | |
| | | Chamadala .. .. | 750 | .. | .. | .. | 750 | .. | .... | |
| | | Zakkepalli Gudur .. | 800 | .. | .. | .. | 800 | .. | .... | |
| | | Nagalavaram .. | 414 | .. | .. | .. | 414 | .. | .... | |
| | | Tummalapenta, West. | 2,280 | .. | .. | .. | 2,280 | .. | .... | |
| | | Bitragunta .. | 1,908 | .. | .. | .. | 1,908 | .. | .... | |
| | | Narayanapuram .. | 2,392 | .. | .. | .. | 2,392 | .. | .... | |
| | | Kesavaram .. .. | 908 | .. | .. | .. | 908 | .. | .... | |
| | | Tummalapenta, North. | 1,300 | .. | .. | .. | 1,300 | .. | .... | |
| | | Kavali extension .. | .. | .. | 800 | .. | 800 | .. | No. 353 of 25th June 1895. | |
| | | Budamagunta .. | .. | .. | 300 | .. | 300 | .. | No. 465 of 28th August 1895. | |
| | | Bitragunta extension. | .. | .. | 600 | .. | 600 | .. | No. 136 of 19th March 1896. | |
| | | Narayanapuram extension. | .. | .. | 520 | .. | 520 | .. | No. 136 of 19th March 1896. | |
| | Gudur. | Kanupur, East .. | 960 | .. | .. | .. | 960 | .. | .... | |
| | | Vendodu .. .. | 818 | .. | .. | .. | 818 | .. | .... | |
| | | Idagali .. .. | 480 | .. | .. | .. | 480 | .. | .... | |
| | | Vodur .. .. | 883 | .. | .. | .. | 883 | .. | .... | |
| | | Gudur .. .. | 950 | .. | .. | .. | 950 | .. | .... | |
| | | Cherukumeedi .. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Valliped .. .. | 720 | .. | .. | .. | 720 | .. | .... | |
| | | Chillakur .. .. | 460 | .. | .. | .. | 460 | .. | .... | |
| | | Vindur .. .. | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Nellahalli .. .. | 275 | .. | .. | .. | 450 | .. | .... | |
| | | Kadived, South .. | 450 | .. | .. | .. | 275 | .. | .... | |
| | | Do. North .. | 468 | .. | .. | .. | 468 | .. | .... | |
| | | Aukulapatur .. .. | 240 | .. | .. | .. | 240 | .. | .... | |
| | | Pedatalapudi .. | 750 | .. | .. | .. | 750 | .. | .... | |
| | | Madamanur .. .. | 560 | .. | .. | .. | 560 | .. | .... | |
| | | Kanupur, West .. | 1,974 | .. | .. | .. | 1,974 | .. | .... | |
| | | Ipur .. .. .. | 1,033 | .. | .. | .. | 1,033 | .. | .... | |
| | | Survepalli .. .. | 2,750 | .. | .. | .. | 2,750 | .. | .... | |
| | | Momidi .. .. | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | | Tammenapatam, West. | 350 | .. | .. | .. | 350 | .. | .... | |
| | | Yellasiri .. .. | 2,518 | .. | .. | .. | 2,518 | .. | .... | |
| | | Vedicherla .. .. | 850 | .. | .. | .. | 850 | .. | .... | |
| | Casuarina plantation. | Dugarazpatam Casuarina plantation. | 1,200 | .. | .. | .. | 1,200 | .. | .... | |
| | | Tammenapatam Casuarina plantation. | 485 | .. | .. | .. | 485 | .. | .... | |
| | | Kottapatam block .. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |
| | | Do. Casuarina plantation. | 1,420 | .. | .. | .. | 1,420 | .. | .... | |
| | | Iskapalli Casuarina plantation. | 23 | .. | .. | .. | 23 | .. | .... | |
| | | Vutukur, Varani Casuarina plantation. | 607 | .. | .. | .. | 607 | .. | .... | |
| | Nellore. | Kandamur .. .. | 1,520 | .. | .. | .. | 1,520 | .. | .... | |
| | | Kakutur .. .. | 480 | .. | .. | .. | 480 | .. | .... | |
| | | Dontali .. .. | 1,280 | .. | .. | .. | 1,280 | .. | .... | |
| | | Chemudugunta .. | 320 | .. | .. | .. | 320 | .. | .... | |
| | | South Mopur .. | 1,000 | .. | .. | .. | 1,000 | .. | .... | |
| | | Kottapalli .. .. | 4,230 | .. | .. | .. | 4,230 | .. | .... | |
| | | Marripad .. .. | 1,400 | .. | .. | .. | 1,400 | .. | .... | |
| | | Turimerla .. .. | 620 | .. | .. | .. | 620 | .. | .... | |
| | | Allipuram .. .. | 125 | .. | .. | .. | 125 | .. | .... | |
| | | Amancherla, East .. | 960 | .. | .. | .. | 960 | .. | .... | |
| | | Do. West .. | 480 | .. | .. | .. | 480 | .. | .... | |
| | | Vavveru .. .. | 2,970 | .. | .. | .. | 2,970 | .. | .... | |
| | | Dagadarti .. .. | 2,866 | .. | .. | .. | 2,866 | .. | .... | |
| | | Kondlapudi .. .. | 1,500 | .. | .. | .. | 1,500 | .. | .... | |
| | | Nellore .. .. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Sangam .. .. | .. | .. | 1,100 | .. | 1,100 | .. | No. 45 of 22nd January 1896. | |
| | Rapur. | Marupur .. .. | 3,130 | .. | .. | .. | 3,130 | .. | .... | |
| | | Toderu .. .. | 750 | .. | .. | .. | 750 | .. | .... | |
| | | Vadlapudi .. .. | 2,400 | .. | .. | .. | 2,400 | .. | .... | |
| | | Biradavelu .. .. | 2,250 | .. | .. | .. | 2,250 | .. | .... | |
| | | Turimerla .. .. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Pulikollu .. .. | 740 | .. | .. | .. | 740 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Central Circle*—cont. | | | | | | | | | |
| Nellore —*cont.* | Rapur—*cont.* | Utukur .. .. | 725 | .. | .. | .. | 725 | .. | .... | |
| | | Duggunta .. .. | 1,200 | .. | .. | .. | 1,200 | .. | .... | |
| | | Mogallur .. .. | 957 | .. | .. | .. | 957 | .. | .... | |
| | | Ayyagaripalem .. | 320 | .. | .. | .. | 320 | .. | .... | |
| | | Chikavolu .. .. | 1,100 | .. | .. | .. | 1,100 | .. | .... | |
| | | Chittalur .. .. | 515 | .. | .. | .. | 515 | .. | .... | |
| | | Nellapalli .. .. | 2,100 | .. | .. | .. | 2,100 | .. | .... | |
| | | Turpupundla .. .. | 1,000 | .. | .. | .. | 1,000 | .. | .... | |
| | | Vavintaparti .. .. | 1,300 | .. | .. | .. | 1,300 | .. | .... | |
| | | Tummalatalpur .. | 4,000 | .. | .. | .. | 4,000 | .. | .... | |
| | | Chaganam .. .. | 1,500 | .. | .. | .. | 1,500 | .. | .... | |
| | | Paluru .. .. | 210 | .. | .. | .. | 210 | .. | .... | |
| | | Griddalur .. .. | 700 | .. | .. | .. | 700 | .. | .... | |
| | | Potukonda .. .. | 1,860 | .. | .. | .. | 1,860 | .. | .... | |
| | | Marellakonda .. | 400 | .. | .. | .. | 400 | .. | .... | |
| | | Guttikonda .. .. | 180 | .. | .. | .. | 180 | .. | .... | |
| | | Kummaragunta .. | 440 | .. | .. | .. | 440 | .. | .... | |
| | | Kakerlakonda .. | 1,850 | .. | .. | .. | 1,850 | .. | .... | |
| | | Rapur Veligondas .. | 30,720 | .. | .. | .. | 30,720 | .. | .... | |
| | | Nernur .. .. | 1,190 | .. | .. | .. | 1,190 | .. | .... | |
| | | Potegunta .. .. | 1,500 | .. | .. | .. | 1,500 | .. | .... | |
| | | Cherlopalli .. | 3,360 | .. | .. | .. | 3,360 | .. | .... | |
| | | Podalakur .. .. | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | | Veminabhi .. .. | 2,250 | .. | .. | .. | 2,250 | .. | .... | |
| | | Marlapudi .. .. | 4,550 | .. | .. | .. | 4,550 | .. | .... | |
| | | Sydapuram .. .. | 1,630 | .. | .. | .. | 1,630 | .. | .... | |
| | | Rapur Yerrakondas .. | 23,040 | .. | .. | .. | 23,040 | .. | .... | |
| | Atmakúr. | Telugurayapuram .. | 763 | .. | .. | .. | 763 | .. | .... | |
| | | Sreekolanu .. .. | 1,521 | .. | .. | .. | 1,521 | .. | .... | |
| | | Chejerla .. .. | 1,121 | .. | .. | .. | 1,121 | .. | .... | |
| | | Turpukambampad .. | 861 | .. | .. | .. | 861 | .. | .... | |
| | | Bommavaram .. | 3,000 | .. | .. | .. | 3,000 | .. | .... | |
| | | Prabagiripatnam .. | 2,500 | .. | .. | .. | 2,500 | .. | .... | |
| | | Rajavolu-Punugodu. | .. | .. | 1,850 | .. | 1,850 | .. | No. 491 of 6th Sept. 1895. | |
| | Udayagiri. | Udayagiri, East and Appasamudram. | 1,500 | .. | .. | .. | 1,500 | .. | .... | |
| | | Udayagiri Durgam .. | 11,280 | .. | .. | .. | 11,280 | .. | .... | |
| | | Do. Yerrakondas. | 14,080 | .. | .. | .. | 14,080 | .. | .... | |
| | | Total .. | 266,874 | 417 | 12,070 | .. | 278,944 | 436 | .... | |
| Chingleput. | Tiruvallúr. | Kambakkam .. .. | 14,951 | .. | .. | .. | 14,951 | .. | .... | |
| | | Do. extension 1. | 318 | .. | .. | .. | 318 | .. | .... | |
| | | Do. „ 2. | 610 | .. | .. | .. | 610 | .. | .... | |
| | | Sathiavedu .. .. | 6,859 | .. | .. | .. | 6,859 | .. | .... | |
| | | Do. extension 1. | 382 | .. | .. | .. | 382 | .. | .... | |
| | | Do. „ 2 .. | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Do. „ 3 .. | 470 | .. | .. | .. | 470 | .. | .... | |
| | | Ambakkam .. .. | 5,259 | .. | .. | .. | 5,259 | .. | .... | |
| | | Do. extension 1. | 80 | .. | .. | .. | 80 | .. | .... | |
| | | Do. „ 2 .. | 98 | .. | .. | .. | 98 | .. | .... | |
| | | Do. „ 3 .. | 289 | .. | .. | .. | 289 | .. | .... | |
| | | Do. „ 4 .. | 235 | .. | .. | .. | 235 | .. | .... | |
| | | Aradur .. .. | 2,680 | .. | .. | .. | 2,680 | .. | .... | |
| | | Do. extension 1 .. | 288 | .. | .. | .. | 288 | .. | .... | |
| | | Do. „ 2 .. | 90 | .. | .. | .. | 90 | .. | .... | |
| | | Kadur .. .. | 2,494 | .. | .. | .. | 2,494 | .. | .... | |
| | | Do. extension 1 .. | 90 | .. | .. | .. | 90 | .. | .... | |
| | | Do. „ 2 .. | 160 | .. | .. | .. | 160 | .. | .... | |
| | | Do. „ 3 .. | 110 | .. | .. | .. | 110 | .. | .... | |
| | | Ugumudi .. .. | 2,874 | .. | .. | .. | 2,874 | .. | .... | |
| | | Do. extension 2. | 135 | .. | .. | .. | 135 | .. | .... | |
| | | Do. „ 3. | 180 | .. | .. | .. | 180 | .. | .... | |
| | | Do. „ 4. | 176 | .. | .. | .. | 176 | .. | .... | |
| | | Allikuli .. .. | 5,649 | .. | .. | .. | 5,649 | .. | .... | |
| | | Do. extension 1 .. | 161 | .. | .. | .. | 161 | .. | .... | |
| | | Do. „ 2 .. | 93 | .. | .. | .. | 93 | .. | .... | |
| | | Do. „ 3 .. | 100 | .. | .. | .. | 100 | .. | .... | |
| | | Do. „ 4 .. | 70 | .. | .. | .. | 70 | .. | .... | |

Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | | *Central Circle*—cont. | | | | | | | | |
| Chingleput —*cont.* | Tiruvallúr —*cont.* | Allikuli extension 5 | 98 | .. | .. | .. | 98 | .. | .... | |
| | | Do. „ 6 | 129 | .. | .. | .. | 129 | .. | .... | |
| | | Do. „ 7 | 250 | .. | .. | .. | 250 | .. | .... | |
| | | Nagalapuram | 8,345 | .. | .. | .. | 8,345 | .. | .... | |
| | | Do. extension 1. | 734 | .. | .. | .. | 734 | .. | .... | |
| | | Do. „ 2. | 190 | .. | .. | .. | 190 | .. | .... | |
| | | Do. „ 3. | 122 | .. | .. | .. | 122 | .. | .... | |
| | | Do. „ 4. | 333 | .. | .. | .. | 333 | .. | .... | |
| | | Palavakkam | 2,511 | .. | .. | .. | 2,511 | .. | .... | |
| | | Do. extension 2. | 280 | .. | .. | .. | 280 | .. | .... | |
| | | Do. „ 3. | 109 | .. | .. | .. | 109 | .. | .... | |
| | | Do. „ 4. | 84 | .. | .. | .. | 84 | .. | .... | |
| | | Do. „ 5. | 101 | .. | .. | .. | 101 | .. | .... | |
| | | Do. „ 6. | 109 | .. | .. | .. | 109 | .. | .... | |
| | | Pulrambakkam | 577 | .. | .. | .. | 577 | .. | .... | |
| | | Do. extension 1. | 127 | .. | .. | .. | 127 | .. | .... | |
| | | Do. „ 2. | 270 | .. | .. | .. | 270 | .. | .... | |
| | | Mailapur | 930 | .. | .. | .. | 930 | .. | .... | |
| | | Do. extension 2. | 225 | .. | .. | .. | 225 | .. | .... | |
| | | Vembedu | 1,075 | .. | .. | .. | 1,075 | .. | .... | |
| | | Vengathur | 312 | .. | .. | .. | 312 | .. | .... | |
| | | Vengathur extension 1 | 50 | .. | .. | .. | 50 | .. | .... | |
| | | Budur | 86 | .. | .. | .. | 86 | .. | .... | |
| | | Do. A | 85 | .. | .. | .. | 85 | .. | .... | |
| | | Do. B | 1 | .. | .. | .. | 1 | .. | .... | |
| | | Do. extension 1 | 10 | .. | .. | .. | 10 | .. | .... | |
| | | Siruvada | 388 | .. | .. | .. | 388 | .. | .... | |
| | | Nemalur | 940 | .. | .. | .. | 940 | .. | .... | |
| | | Do. extension 1. | 99 | .. | .. | .. | 99 | .. | .... | |
| | | Irukulam | 775 | .. | .. | .. | 775 | .. | .... | |
| | | Do. extension 1. | 219 | .. | .. | .. | 210 | .. | .... | |
| | | Kuvakkolli | 228 | .. | .. | .. | 228 | .. | .... | |
| | | Nelvoyi | 161 | .. | .. | .. | 161 | .. | .... | |
| | | Kalathur | 212 | .. | .. | .. | 212 | .. | .... | |
| | | Nayappakkam, A & D. | 1,370 | .. | .. | .. | 1,037 | .. | .... | |
| | | Do. B | 163 | .. | .. | .. | 163 | .. | .... | |
| | | Do. C | 105 | .. | .. | .. | 105 | .. | .... | |
| | | Senjiagaram | 324 | .. | .. | .. | 324 | .. | .... | |
| | | Rajella | 125 | .. | .. | .. | 125 | .. | .... | |
| | | Mopurpalli | 84 | .. | .. | .. | 84 | .. | .... | |
| | | Alamadi | 1,263 | .. | .. | .. | 1,263 | .. | .... | |
| | | Attanthangal | 268 | .. | .. | .. | 268 | .. | .... | |
| | | Nayar | 295 | .. | .. | .. | 295 | .. | .... | |
| | | Erumaivettipalayam. | 545 | .. | .. | .. | 545 | .. | .... | |
| | | Kanalur | 230 | .. | .. | .. | 230 | .. | .... | |
| | Ponnéri taluk. | Manali | 1,480 | .. | .. | .. | 1,480 | .. | .... | |
| | | Opa Samudram | 580 | .. | .. | .. | 580 | .. | .... | |
| | | Kurivithittoo | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Periaopalapuram | 66 | .. | .. | .. | 66 | .. | .... | |
| | | Elavur | 175 | .. | .. | .. | 175 | .. | .... | |
| | | Chinna Oblapuram | 69 | .. | .. | .. | 69 | .. | .... | |
| | | Siruvelipettai, A | 50 | .. | .. | .. | 50 | .. | .... | |
| | | Do. B | 54 | .. | .. | .. | 54 | .. | .... | |
| | | Tirukkalukundram. | 697 | .. | .. | .. | 697 | .. | .... | |
| | | Do. extension 1. | 945 | .. | .. | .. | 945 | .. | .... | |
| | | Oragadam | 540 | .. | .. | .. | 540 | .. | .... | |
| | | Do. extension 1. | 240 | .. | .. | .. | 240 | .. | .... | |
| | | Do. „ 2. | 395 | .. | .. | .. | 395 | .. | .... | |
| | | Madayathur | 697 | .. | .. | .. | 697 | .. | .... | |
| | | Vallam | 1,328 | .. | .. | .. | 1,328 | .. | .... | |
| | Chingleput. | Do. extension 1 | 170 | .. | .. | .. | 170 | .. | .... | |
| | | Anjur | 1,514 | .. | .. | .. | 1,514 | .. | .... | |
| | | Nemili | 633 | .. | .. | .. | 633 | .. | .... | |
| | | Alappakkam, A. and B. | 486 | .. | .. | .. | 486 | .. | .... | |
| | | Do. extension 2. | 112 | .. | .. | .. | 112 | .. | .... | |
| | | Timmani | 639 | .. | .. | .. | 639 | .. | .... | |
| | | Vandalur | 3,207 | .. | .. | .. | 3,207 | .. | .... | |
| | | Do. extension 2. | 79 | .. | .. | .. | 79 | .. | .... | |
| | | Do. „ 4. | 94 | .. | .. | .. | 94 | .. | .... | |
| | | Gudalur | 2,744 | .. | .. | .. | 2,744 | .. | .... | |

## Area of reserved forests, 1895–96 —*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 1st July 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Central Circle*—cont. | | | | | | | | | |
| | | Senkundram .. | 1,232 | .. | .. | .. | 1,232 | .. | .... | |
| | | Do. extension 2. | 86 | .. | .. | .. | 86 | .. | .... | |
| | | Appur .. . | 1,449 | .. | .. | .. | 1,449 | .. | .... | |
| | | Do. extension 2 .. | 160 | .. | .. | .. | 160 | .. | .... | |
| | | Do. ,, 3 .. | 60 | .. | .. | .. | 60 | .. | .... | |
| | | Do. ,, 5 .. | 76 | .. | .. | .. | 76 | .. | .... | |
| | | Do. ,, 6 .. | 110 | .. | .. | .. | 110 | .. | .... | |
| | | Do. ,, 7 .. | 205 | .. | .. | .. | 205 | .. | .... | |
| | | Venkatapuram .. | 119 | .. | .. | .. | 119 | .. | .... | |
| | | Tirutheni .. .. | 272 | .. | .. | .. | 272 | .. | .... | |
| | | Do. extension 1. | 610 | .. | .. | .. | 610 | .. | .... | |
| | | Do. ,, 2. | 180 | .. | .. | .. | 180 | .. | .... | |
| | | Paranur .. .. | 378 | .. | .. | .. | 378 | .. | .... | |
| | | Kattankolathur .. | 535 | .. | .. | .. | 535 | .. | .... | |
| | | Kavanur .. .. | 569 | .. | .. | .. | 569 | .. | .... | |
| | | Kalvayi .. .. | 138 | .. | .. | .. | 138 | .. | .... | |
| | | Kolathur .. .. | 1,905 | .. | .. | .. | 1,909 | .. | .... | |
| | | Do. extension 1. | 63 | .. | .. | .. | 63 | .. | .... | |
| | Chingleput— | Do. ,, 2. | 5 | .. | .. | .. | 5 | .. | .... | |
| | *cont.* | Do. ,, 3. | 18 | .. | .. | .. | 18 | .. | .... | |
| | | Kayar .. .. | 642 | .. | .. | .. | 642 | .. | .... | |
| | | Do. extension 1 .. | 470 | .. | .. | .. | 470 | .. | .... | |
| | | Taiyur .. .. | 1,084 | .. | .. | .. | 1,084 | .. | .... | |
| | | Mambakkam .. .. | 726 | .. | .. | .. | 726 | .. | .... | |
| | | Do. extension 1 .. | 551 | .. | .. | .. | 551 | .. | .... | |
| | | Sonallur .. .. | 1,107 | .. | .. | .. | 1,107 | .. | .... | |
| | | Unamanjeri .. .. | 750 | .. | .. | .. | 750 | .. | .... | |
| | | Kumili .. .. | 690 | .. | .. | .. | 690 | .. | .... | |
| | | Do. extension 1 .. | 617 | .. | .. | .. | 617 | .. | .... | |
| | | Kattur .. .. | 2,960 | .. | .. | .. | 2,960 | .. | .... | |
| | | Alathur .. .. | 488 | .. | .. | .. | 488 | .. | .... | |
| | | Illalur .. .. | 692 | .. | .. | .. | 692 | .. | .... | |
| | | Senkundram, A. .. | 869 | .. | .. | .. | 869 | .. | .... | |
| | | Do. B. .. | 376 | .. | .. | .. | 376 | .. | .... | |
| | | Hanumanthaputteri .. | 286 | .. | .. | .. | 286 | .. | .... | |
| | | Do. extension 1. | 190 | .. | .. | .. | 190 | .. | .... | |
| | | Navalur .. .. | 308 | .. | .. | .. | 308 | .. | .... | |
| | | Karanai .. .. | 672 | .. | .. | .. | 672 | .. | .... | |
| Chingleput— | | Irumbili .. .. | 260 | .. | .. | .. | 260 | .. | .... | |
| *cont.* | | Puragal .. .. | 305 | .. | .. | .. | 305 | .. | .... | |
| | | Perunkolli .. .. | 672 | .. | .. | .. | 672 | .. | .... | |
| | | Sirunallur .. .. | 440 | .. | .. | .. | 440 | .. | .... | |
| | | Rajapalayam .. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Kattugudalur .. | 2,055 | .. | .. | .. | 2,055 | .. | .... | |
| | Madurantakam. | Endathur .. .. | 250 | .. | .. | .. | 250 | .. | .... | |
| | | Tandalam, A. .. | 430 | .. | .. | .. | 430 | .. | .... | |
| | | Acharavakkam .. | .. | .. | 980 | .. | 980 | .. | No. 27 of 24th Dec. 1895, page 23 of 7th Jan. 1896. | |
| | | Gudalur .. .. | .. | .. | 820 | .. | 820 | .. | No. 15 of 28th Nov. 1895, page 12 of 7th Jan. 1896. | |
| | | Tandrai .. .. | 664 | .. | .. | .. | 664 | .. | .... | |
| | | Pulikaradu .. .. | 176 | .. | .. | .. | 176 | .. | .... | |
| | | Tambaram .. .. | 262 | .. | .. | .. | 262 | .. | .... | |
| | | Kadapperi .. .. | 227 | .. | .. | .. | 227 | .. | .... | |
| | | Selaiyur .. .. | 498 | .. | .. | .. | 498 | .. | .... | |
| | | Maduraipakkam .. | 351 | .. | .. | .. | 351 | .. | .... | |
| | | Nanmangalam .. | 328 | .. | .. | .. | 328 | .. | .... | |
| | | Erumaiylaur .. .. | 192 | .. | .. | .. | 192 | .. | .... | |
| | | Arasankalanai .. | 185 | .. | .. | .. | 185 | .. | .... | |
| | Saidapet. | Perumbakkam, A. .. | 636 | .. | .. | .. | 636 | .. | .... | |
| | | Do B. .. | 117 | .. | .. | .. | 117 | .. | .... | |
| | | Meyur .. .. | 534 | .. | .. | .. | 534 | .. | .... | |
| | | Kovilpidagai .. | 377 | .. | .. | .. | 377 | .. | .... | |
| | | Sikkarayapuram .. | 93 | .. | .. | .. | 93 | .. | .... | |
| | | Kattambakam .. | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Mittanemalai .. .. | 267 | .. | .. | .. | 267 | .. | .... | |
| | | Tirumalavoyal .. | 386 | .. | .. | .. | 386 | .. | .... | |
| | | Nandambakkam .. | 259 | .. | .. | .. | 259 | .. | .... | |
| | | Tirusulam .. .. | 260 | .. | .. | .. | 260 | .. | .... | |
| | | Madambakkam .. | 563 | .. | .. | .. | 563 | .. | .... | |

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *Central Circle*—cont. | | | | | | | | |
| Chengleput—*cont.* | Conjeeveram. | Tiruvangur .. .. | 465 | .. | .. | .. | 465 | .. | .... | |
| | | Orattur .. .. | 312 | .. | .. | .. | 312 | .. | .... | |
| | | Vattambakkam .. | 694 | .. | .. | .. | 694 | .. | .... | |
| | | Vadakupattu .. .. | 795 | .. | .. | .. | 795 | .. | .... | |
| | | Kottambakkam, A. .. | 126 | .. | .. | .. | 126 | .. | .... | |
| | | Do. B. . | 205 | .. | .. | .. | 205 | .. | .... | |
| | | Pudupper .. .. | 375 | .. | .. | .. | 375 | .. | .... | |
| | | Manner .. .. | 570 | .. | .. | .. | 570 | .. | .... | |
| | | Nallur .. .. | 937 | .. | .. | .. | 937 | .. | .... | |
| | | Maganiam .. .. | 946 | .. | .. | .. | 946 | .. | .... | |
| | | Total .. | 126,229 | 197 | 1,800 | .. | 128,029 | 200 | | |
| | Chittoor.. | Paradarami .. .. | 15,043 | .. | .. | .. | 15,043 | .. | .... | |
| | | Pachigunta .. .. | 1,800 | .. | .. | .. | 1,800 | .. | .... | |
| | | Kinatipalle .. .. | 1,417 | .. | .. | .. | 1,417 | .. | .... | |
| | | Cheelapalle .. .. | 1,296 | .. | .. | .. | 1,296 | .. | .... | |
| | | Santhapet .. .. | 2,096 | .. | .. | .. | 2,096 | .. | .... | |
| | | Basavapalle, A and B. | 1,937 | .. | .. | .. | 1,937 | .. | .... | |
| | | Mohimandalam .. | 2,516 | .. | .. | .. | 2,516 | .. | .... | |
| | | Chittaparai .. .. | 4,250 | .. | .. | .. | 4,250 | .. | .... | |
| | | Virisettipalle .. | 7,287 | .. | .. | .. | 7,287 | .. | .... | |
| | | Iralla .. .. .. | 16,122·10 | .. | .. | (*c*) 500 | 15,622·10 | .. | No. 196 of 10th April 1896. | |
| | Chittoor- and Chendragiri. | Bommasamudram .. | 1,242 | .. | .. | .. | 1,242 | .. | .... | |
| | | Vaviltota .. .. | 2,495 | .. | .. | .. | 2,495 | .. | .... | |
| | | Javanampalle .. | 2,060 | .. | .. | (*c*) 200 | 1,860 | .. | .... | |
| | | Patalpet .. .. | 2,917 | .. | .. | (*c*) 475 | 2,442 | .. | .... | |
| | | Chittoor .. .. | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Penamur .. .. | 2,097 | .. | .. | .. | 2,097 | .. | .... | |
| | | Bommasamudrum extension. | .. | .. | 1,500 | .. | 1,500 | .. | No. 610 of 14th Nov. 1895. | |
| | | Kinatipalle extension. | .. | .. | 1,499·95 | .. | 1,499·95 | .. | No. 122 of 20th Mar. 1896. | |
| | | Basavapalle do. | .. | .. | 830 | .. | 830 | .. | No. 121 of 1st April 1896. | |
| | Chendragiri. | Napier .. .. | 8,380·12 | .. | .. | .. | 8,380·12 | .. | .... | |
| | | Mamandur .. .. | 1,776 | .. | .. | .. | 1,776 | .. | .... | |
| | | Chamala .. .. | 9,600 | .. | .. | .. | 9,600 | .. | .... | |
| | | Panapakam .. .. | 6,400 | .. | .. | .. | 6,400 | .. | .... | |
| | | Puddepatlabylu .. | 2,560 | .. | .. | .. | 2,560 | .. | .... | |
| | | Gazulamandyam .. | 250 | .. | .. | 250 | .. | .. | No. 196 of 10th April 1896. | |
| North Arcot. | | Mamandur extension. | 8,000 | .. | .. | .. | 8,000 | .. | .... | |
| | | Tirupati hill .. .. | 16,000 | .. | .. | .. | 16,000 | .. | .... | |
| | | Panapakkam extension. | 9,730 | .. | .. | .. | 9,730 | .. | .... | |
| | | Mungilpattu .. .. | 22,700 | .. | .. | .. | 22,700 | .. | .... | |
| | | Nagapatla .. .. | 8,265·83 | .. | .. | .. | 8,265·83 | .. | .... | |
| | | Tirupati hill extension. | 5,840 | .. | .. | .. | 5,840 | .. | .... | |
| | | Chendragiri hill .. | 983·54 | .. | .. | .. | 983·54 | .. | .... | |
| | | Damalcherla .. .. | 2,416·92 | .. | .. | .. | 2,416·92 | .. | .... | |
| | | Sanambatla .. .. | 5,000 | .. | .. | .. | 5,000 | .. | .... | |
| | Palmanér. | Musalimadugu .. | 9,600 | .. | .. | .. | 9,600 | .. | .... | |
| | | Basavareddipalle .. | 10,240 | .. | .. | .. | 10,240 | .. | .... | |
| | | Peddur .. .. | 8,061·88 | .. | .. | .. | 8,061·88 | .. | .... | |
| | | Palmanair tope .. | 2 | .. | .. | .. | 2 | .. | .... | |
| | | Nagamangalam .. | 31 | .. | .. | .. | 31 | .. | .... | |
| | | Peduguvaripalle .. | 20 | .. | .. | .. | 20 | .. | .... | |
| | | Venkatagirikotta .. | 4 | .. | .. | .. | 4 | .. | .... | |
| | | Baireddipalle .. | 4 | .. | .. | .. | 4 | .. | .... | |
| | | Chargallu .. .. | 18,911 | .. | .. | .. | 18,911 | .. | .... | |
| | | Pednaigdrug .. .. | 12,759·97 | .. | .. | .. | 12,759·97 | .. | .... | |
| | Palmanér and Gudiyattam. | Melmoye .. .. | 960 | .. | .. | .. | 960 | .. | .... | |
| | | Mordana .. .. | 23,415·64 | .. | .. | .. | 23,415·64 | .. | .... | |
| | | Naickaneri .. .. | 6,400 | .. | .. | .. | 6,400 | .. | .... | |
| | Gudiyattam. | Ambur drug .. .. | 5,760 | .. | .. | .. | 5,760 | .. | .... | |
| | | Tiravalam plantation. | 435 | .. | .. | .. | 435 | .. | .... | |
| | | Viringipuram plantation. | 260 | .. | .. | .. | 260 | .. | .... | |
| | | Cheynur plantations. | 130 | .. | .. | .. | 130 | .. | .... | |
| | | Ammundi do. | 160 | .. | .. | .. | 160 | .. | .... | |

(*c*) Disafforested.

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Central Circle*—cont. | | | | | | | | | |
| North Arcot—*cont.* | Wudiyattam—*cont.* | Tondroyagunta .. | 2 | .. | .. | .. | 2 | .. | .... | |
| | | Vikramosi .. . | 161 | .. | .. | .. | 161 | .. | .... | |
| | | Naickneri extension.. | 1,280 | .. | .. | .. | 1,280 | .. | .... | |
| | | Pallelakuppam .. | 6,212 | .. | .. | .. | 6,212 | .. | .... | |
| | | Pardarami extension. | 1,900 | .. | .. | .. | 1,900 | .. | .... | |
| | | Synagunta .. .. | 6,400 | .. | .. | .. | 6,400 | .. | .... | |
| | | Mordana extension .. | 9,598 | .. | .. | .. | 9,598 | .. | .... | |
| | | Panamadangi .. | 9,340 | .. | .. | .. | 9,340 | .. | .... | |
| | | Gundlapalle .. .. | 8,418 | .. | .. | .. | 8,418 | .. | .... | |
| | | Karapattu .. .. | 8,333 | .. | .. | .. | 8,333 | .. | .... | |
| | | Konjanur .. .. | .. | .. | 2,490 | .. | 2,490 | .. | No. 606 of 14th Nov. 1895. | |
| | Vellore .. | Ambur Fuel .. .. | 3,840 | .. | .. | .. | 3,840 | .. | .... | |
| | | Palamadi .. .. | 6,400 | .. | .. | .. | 6,400 | .. | .... | |
| | | Ambur tope .. .. | 5 | .. | .. | .. | 5 | .. | .... | |
| | | Attiyur .. .. | 4,808 | .. | .. | .. | 4,808 | .. | .... | |
| | | Vellakallu .. .. | 5,273 | .. | .. | .. | 5,273 | .. | .... | |
| | | Ambur extension .. | 24,885 | .. | .. | .. | 24,885 | .. | .... | |
| | | Vellore .. .. | 997·04 | .. | .. | .. | 997·04 | .. | .... | |
| | | Pallekonda .. .. | 1,989·40 | .. | .. | .. | 1,939·40 | .. | .... | |
| | | Nellimalai .. .. | 1,490 | .. | .. | .. | 1,490 | .. | .... | |
| | | Paruvamalai .. .. | 3,961·55 | .. | .. | .. | 3·961·55 | .. | .... | |
| | | Kylasagiri hill .. | 1,194·77 | .. | .. | .. | 1,194·77 | .. | .... | |
| | Vellore and Polur taluks. | Arasampattu .. | 31,480 | .. | .. | .. | 31,480 | .. | .... | |
| | | Tellai .. | 15,121 | .. | .. | .. | 15,121 | .. | .... | |
| | Vellore .. | Kaniambadi .. .. | .. | .. | 1,424·20 | .. | 1,424·20 | .. | No. 325 of 8th June 1895. | |
| | | Appukallu or Arasampattu extension. | .. | .. | 700 | .. | 700 | .. | No. 442 of 20th August 1895. | |
| | | Karuthamalai .. | .. | .. | 11,856·27 | .. | 11,856·27 | .. | No. 535 of 22nd Oct. 1895. | |
| | Polur .. | Karvatighur . | 7,069 | .. | .. | .. | 7,069 | .. | .... | |
| | | Amerdi plantation .. | 25 | .. | .. | .. | 25 | .. | .... | |
| | | Pattur .. .. | 12,800 | .. | .. | .. | 12,800 | .. | .... | |
| | | Patrakad .. .. | 19,200 | .. | .. | .. | 19,200 | .. | .... | |
| | | Virappanar .. .. | 64,000 | .. | .. | .. | 64,000 | .. | .... | |
| | | Kelur .. .. | 2,866 | .. | .. | .. | 2,866 | .. | .... | |
| | | Kappalur .. .. | 1,114 | .. | .. | .. | 1,114 | .. | .... | |
| | | Malayalam .. .. | 11,462 | .. | .. | .. | 11,462 | .. | .... | |
| | | Aliyalamangalam .. | 10,027 | .. | .. | .. | 10,027 | .. | .... | |
| | | Santavasal .. .. | 8,238·27 | .. | .. | .. | 8,238·27 | .. | .... | |
| | | Periyamalai .. .. | 5,357 | .. | .. | .. | 5,357 | .. | .... | |
| | | Malakod .. .. | 16,802 | .. | .. | .. | 16,802 | .. | .... | |
| | | Paruvadamalai .. | 4,000 | .. | .. | .. | 4,000 | .. | .... | |
| | | Santavasal extension. | 260 | .. | .. | .. | 260 | .. | .... | |
| | | Vellimalai .. .. | 1,000 | .. | .. | .. | 1,000 | .. | .... | |
| | Arcot .. | Punganur .. .. | 3,743 | .. | .. | .. | 3,743 | .. | .... | |
| | | Kilminnel plantation. | 150 | .. | .. | .. | 150 | .. | .... | |
| | | Sennaleri .. .. | 1,675 | .. | .. | .. | 1,675 | .. | .... | |
| | | Satur .. .. | 709 | .. | .. | .. | 709 | .. | .... | |
| | | Thondapantangal .. | 1,092 | .. | .. | .. | 1,092 | .. | .... | |
| | | Enadivadi .. .. | 1,565 | .. | .. | .. | 1,565 | .. | .... | |
| | | Solavaram .. .. | 1,143·15 | .. | .. | .. | 1,143·15 | .. | .... | |
| | Wallajah. | Vanivedu plantation. . | 30 | .. | .. | .. | 30 | .. | No. 478, dated 14th Aug. 1895. | |
| | | Arkonam Sub-Magistrate's compound. | 11 | .. | .. | (*a*) 11 | .. | .. | | |
| | | Arkonam tope .. | 37 | .. | .. | .. | 37 | .. | | |
| | | Gudalur .. .. | 535 | .. | .. | .. | 535 | .. | .... | |
| | | Anantapuram or Uriyur. | 540 | .. | .. | .. | 540 | .. | .... | |
| | | Ammanur .. .. | 203 | .. | .. | .. | 203 | .. | .... | |
| | | Banavaram .. .. | 1,051 | .. | .. | .. | 1,051 | .. | .... | |
| | | Kolathur .. .. | 1,729 | .. | .. | .. | 1,729 | .. | .... | |
| | | Ammur .. .. | 5,982 | .. | .. | .. | 5,982 | .. | .... | |
| | Wandiwash. | Bramanakateri .. | 635 | .. | .. | .. | 635 | .. | .... | |
| | | Kodiyalam .. .. | 125 | .. | .. | .. | 125 | .. | .... | |
| | | Badur . .. .. | 783 | .. | .. | .. | 783 | .. | .... | |
| | | Vengunam .. .. | 1,288 | .. | .. | .. | 1,288 | .. | .... | |

(*a*) Disafforested.

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Central Circle*—cont. | | | | | | | | | |
| North Arcot—*cont.* | Gandiwash—*cont.* | Nambedu .. .. | 707 | .. | .. | .. | 707 | .. | .... | |
| | | Vishamangalam .. | 1,148 | .. | .. | .. | 1,148 | .. | .... | |
| | | Ponnur .. .. | 769 | .. | .. | .. | 769 | .. | .... | |
| | | Nedungal .. .. | 3,580 | .. | .. | (*c*) 300 | 3,280 | .. | No. 196, of 10th April 1896. | |
| | | Nedungunam .. | 1,697 | .. | .. | .. | 1,697 | .. | .... | |
| | | Total .. | 618,168 | 966 | 20,300 | 1,736 | 636,732 | 995 | | |
| South Arcot. | No. I, Tiruvannámalai. | Annamalai .. .. | 2,640 | .. | .. | .. | 2,640 | .. | .... | |
| | | Chinnasamudram .. | 3,769 | .. | .. | (*a*) 927 | 2,842 | .. | .... | |
| | | Mudanai .. .. | 6,464 | .. | (*a*) 582 | .. | 7,046 | .. | .... | |
| | | Perungalathur Samimalai. | 9,312 | .. | .. | .. | 9,312 | .. | .... | |
| | | Anandavadi .. .. | 8,672 | .. | .. | (*a*) 403 | 8,269 | .. | .... | |
| | | Kunathimalai .. | 10,032 | .. | .. | (*a*) 2,947 | 7,085 | .. | .... | |
| | | Tippakadu .. .. | 4,442 | .. | (*a*) 141 | .. | 4,583 | .. | .... | |
| | | Tenmalai .. .. | 50,428 | .. | .. | (*a*) 18,722 | 31,706 | .. | .... | |
| | | Pelamarudur .. .. | 9,148 | .. | .. | (*a*) 4,073 | 5,075 | .. | .... | |
| | | Nallapattu .. .. | 6,748 | .. | .. | (*a*) 1,654 | 5,094 | .. | .... | |
| | | Paramanandal .. | 1,794 | .. | .. | (*a*) 277 | 1,517 | .. | .... | |
| | | Radapuram .. .. | 6,890 | .. | .. | (*a*) 580 | 6,310 | .. | .... | |
| | | Nattampalle .. .. | 7,270 | .. | .. | .. | 7,270 | .. | .... | |
| | | Melchengam .. .. | 1,560 | .. | .. | (*a*) 18 | 1,542 | .. | .... | |
| | | Sinniyamputtai .. | 3,659 | .. | .. | .. | 3,659 | .. | .... | |
| | | Kannamadai .. .. | .. | .. | 4,256 | .. | 4,256 | .. | No. 264 of 15th May 1895, *Fort St. George Gazette*, dated 21st May 1895. | |
| | | Valasamalai .. .. | .. | .. | 12,369 | .. | 12,369 | .. | No. 384, of 18th May 1895, *Fort St. George Gazette*, dated 28th May 1895. | |
| | | Pumalai .. .. | .. | .. | 3,115 | .. | 3,115 | .. | No. 410 of 20th July 1895, *Fort St. George Gazette*, dated 30th July 1895. | |
| | | Ravandavadi .. .. | .. | .. | 13,215 | .. | 13,215 | .. | No. 66 of 6th Feb. 1896, *Fort St. George Gazette*, dated 11th Feb. 1896. | |
| | | Thachampattu .. | .. | .. | 2,067 | .. | 2,067 | .. | No. 53 of 28th Jan. 1896, *Fort St. George Gazette*, dated 4th Feb. 1896. | |
| | No. II, Tindivanam. | Sirunudi .. .. | 4,608 | .. | .. | .. | 4,608 | .. | .... | |
| | | Muttakadu .. .. | 4,053 | .. | .. | .. | 4,053 | .. | .... | |
| | | Karai .. .. .. | 1,697 | .. | .. | .. | 1,697 | .. | .... | |
| | | Agaram .. .. | 600 | .. | .. | .. | 600 | .. | .... | |
| | | Merkanam .. .. | 80 | .. | .. | .. | 80 | .. | .... | |
| | | Kurumpuram, 2nd bit. | 192 | .. | .. | .. | 192 | .. | .... | |
| | | Kumulampet .. .. | 1,201 | .. | .. | .. | 1,201 | .. | .... | |
| | | Senur .. .. .. | 1,200 | .. | .. | .. | 1,200 | .. | .... | |
| | | Panchalam .. .. | 1,120 | .. | .. | .. | 1,120 | .. | .... | |
| | | Venmaniyattur .. | 486 | .. | .. | .. | 486 | .. | .... | |
| | | Peradukuppam .. | 729 | .. | .. | .. | 729 | .. | .... | |
| | | Akkur .. .. | 1,350 | .. | .. | .. | 1,350 | .. | .... | |
| | | Saram .. .. .. | 243 | .. | .. | .. | 243 | .. | .... | |
| | | Salanadi .. .. | 64 | .. | .. | .. | 64 | .. | .... | |
| | | Jakkampattu .. .. | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Athikuppam .. .. | 150 | .. | .. | .. | 150 | .. | .... | |
| | | Akshikadu .. .. | 450 | .. | .. | .. | 450 | .. | .... | |
| | | Kurumpuram, 1st bit. | 500 | .. | .. | .. | 500 | .. | .... | |
| | | Olakkur .. .. | 400 | .. | .. | .. | 400 | .. | .... | |
| | | Villukkan .. .. | 384 | .. | .. | .. | 384 | .. | .... | |
| | | Melsevur, 1st bit .. | .. | .. | 691 | .. | 691 | .. | No. 310 of 27th May 1895, *Fort St. George Gazette*, dated 11th June 1895. | |

(*a*) Rectification of area. (*c*) Disafforested.

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Area. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Central Circle*—cont. | | | | | | | | | |
| South Arcot —*cont.* | No. III, Villupuram. | Gangavaram .. .. | 13,276 | .. | .. | .. | 13,276 | .. | .... | |
| | | Nabob's tope .. | 65 | .. | .. | .. | 65 | .. | .... | |
| | | Vakkur .. .. | 384 | .. | .. | .. | 384 | .. | .... | |
| | | Vikkiravandi .. .. | 256 | .. | .. | .. | 256 | .. | .... | |
| | | Sattanur, 1st bit .. | 204 | .. | .. | .. | 204 | .. | .... | |
| | | Narasinganur .. | 428 | .. | .. | .. | 428 | .. | .... | |
| | | Kundalupuliyur .. | 940 | .. | .. | .. | 940 | .. | .... | |
| | | Karanai .. .. | 128 | .. | .. | .. | 128 | .. | .... | |
| | | Adanur .. .. | 1,491 | .. | .. | .. | 1,491 | .. | .... | |
| | | Ariyalur .. .. | 1,036 | .. | .. | .. | 1,036 | .. | .... | |
| | | Vaduda Reddi .. | 260 | .. | .. | .. | 260 | .. | .... | |
| | | Melkondai .. .. | 480 | .. | .. | .. | 480 | .. | .... | |
| | | Sattanur, 2nd bit .. | 320 | .. | .. | .. | 320 | .. | .... | |
| | | Thurinjikadu .. | 853 | .. | .. | .. | 853 | .. | .... | |
| | | Panampattu .. .. | 600 | .. | .. | .. | 600 | .. | .... | |
| | | Kappiyampuliyur .. | 660 | .. | .. | .. | 660 | .. | .... | |
| | | Gangarampalaiyan .. | 435 | .. | .. | .. | 435 | .. | .... | |
| | | Poolanjimalai .. | 600 | .. | .. | .. | 600 | .. | .... | |
| | | Thandavasamudram .. | .. | .. | 787 | .. | 787 | .. | No. 547 of 1st Oct. 1895, *Fort St. George Gazette*, dated 8th Oct. 1895. | |
| | No. IV, Cuddalore. | Vallukarai .. .. | 1,568 | .. | (*a*) 102 | .. | 1,670 | .. | .... | |
| | | Valudalampattu .. | 908 | .. | (*a*) 8 | .. | 916 | .. | .... | |
| | | Sammatikuppam .. | 364 | .. | .. | .. | 364 | .. | .... | |
| | | Marungur .. .. | 224 | .. | (*a*) 36 | .. | 260 | .. | .... | |
| | | Vegakallai .. .. | 480 | .. | (*a*) 159 | .. | 639 | .. | .... | |
| | | Vadakuthu .. .. | 3,084 | .. | .. | (*a*) 68 | 3,016 | .. | .... | |
| | | Valudaiyampattu .. | 1,536 | .. | (*a*) 21 | .. | 1,557 | .. | .... | |
| | | Kangiruppu, 1st bit .. | 2,956 | .. | .. | .. | 2,956 | .. | .... | |
| | | Velankuppam .. | 1,094 | .. | (*a*) 24 | .. | 1,118 | .. | .... | |
| | | Shanankuppam .. | 140 | .. | .. | .. | 140 | .. | .... | |
| | | Fort St. David .. | 44 | .. | .. | .. | 44 | .. | .... | |
| | | Tulvakadu .. .. | 217 | .. | .. | .. | 217 | .. | .... | |
| | | Salombanathanputtai. | 780 | .. | .. | (*a*) 99 | 681 | .. | .... | |
| | | Nochikadu .. .. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Peramathur .. .. | 1,036 | .. | (*a*) 145 | .. | 1,181 | .. | .... | |
| | | Kungiruppu, 2nd bit. | 2,519 | .. | .. | .. | 2,519 | .. | .... | |
| | | Ramapuram .. .. | 1,730 | .. | .. | .. | 1,730 | .. | .... | |
| | | Doni Dorai, South .. | 100 | .. | .. | (*a*) 9 | 91 | .. | .... | |
| | | Siruvathur .. .. | 210 | .. | .. | .. | 210 | .. | .... | |
| | | Punanikuppam .. | 550 | .. | .. | .. | 550 | .. | .... | |
| | | Ranganathapuram .. | 620 | .. | .. | .. | 620 | .. | .... | |
| | | Doni Dorai, North .. | .. | .. | 42 | .. | 42 | .. | No. 365 of 5th July 1895, *Fort St. George Gazette*, dated 9th July 1895. | |
| | | Periyakuppam .. | .. | .. | 1,580 | .. | 1,580 | .. | No. 625 of 27th Nov. 1895, *Fort St. George Gazette*, dated 3rd Dec. 1895. | |
| | No. IV, Chidambaram. | Killai .. .. .. | 1,160 | .. | .. | .. | 1,160 | .. | .... | |
| | | Periyapattu .. .. | 1,130 | .. | .. | .. | 1,130 | .. | .... | |
| | | Walajah .. .. | 2,770 | .. | .. | .. | 2,770 | .. | .... | |
| | | Pichavaram .. .. | 2,489 | .. | .. | .. | 2,489 | .. | .... | |
| | | Kollakudi .. .. | 599 | .. | .. | .. | 599 | .. | .... | |
| | | Rampakkam .. .. | 448 | .. | .. | .. | 448 | .. | .... | |
| | | Nisingan .. .. | 434 | .. | .. | .. | 434 | .. | .... | |
| | | Adivarahanallur .. | .. | .. | 610 | .. | 610 | .. | No. 379 of 14th July 1895, *Fort St. George Gazette*, dated 16th July 1895. | |
| | No. V, Tirukkóyilúr. | Velur .. .. .. | 1,670 | .. | .. | .. | 1,670 | .. | .... | |
| | | Kuttadi .. .. | 1,700 | .. | .. | .. | 1,700 | .. | .... | |
| | | Pandur .. .. | 955 | .. | .. | .. | 955 | .. | .... | |
| | | Adukkam .. .. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |
| | | Nattamur, 2nd bit .. | 3,800 | .. | .. | .. | 3,800 | .. | .... | |
| | | Do. 1st bit .. | 4,500 | .. | .. | .. | 4,500 | .. | .... | |
| | | Samimalai, 2nd bit .. | 5,330 | .. | .. | .. | 5,330 | .. | .... | |
| | | Edakkal .. .. | 3,390 | .. | .. | .. | 3,390 | .. | .... | |
| | | Perichanur .. .. | 650 | .. | .. | .. | 650 | .. | .... | |
| | | Sirupakkam .. .. | 1,080 | .. | .. | .. | 1,080 | .. | .... | |

(*a*) Reclification of area.

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Central Circle*—cont. | | | | | | | | | |
| South Arcot —*cont.* | | Sidani .. .. .. | 2,800 | .. | .. | .. | 2,800 | .. | .... | |
| | | Nayanur .. .. | 1,800 | .. | .. | (*a*) 161 | 1,639 | .. | .... | |
| | | Athipakkam .. .. | 4,500 | .. | .. | .. | 4,500 | .. | .... | |
| | | Alwarmalai .. .. | 8,800 | .. | .. | .. | 8,800 | .. | .... | |
| | | Emappur .. .. | 335 | .. | .. | .. | 335 | .. | .... | |
| | | Mampakkam .. .. | 215 | .. | .. | .. | 215 | .. | .... | |
| | | Tiruvannanellur .. | 220 | .. | .. | .. | 220 | .. | .... | |
| | | Elandurai .. .. | 255 | .. | .. | .. | 255 | .. | .... | |
| | | Velandai .. .. | .. | .. | 645 | .. | 645 | .. | No. 356 of 22nd June 1895, *Fort St. George Gazette*, dated 2nd July 1895. | |
| | No. V, Tirukkóyilúr —*cont.* | Kallamedu .. .. | .. | .. | 1,030 | .. | 1,030 | .. | No. 411 of 24th July 1895, *Fort St. George Gazette*, dated 30th July 1895. | |
| | | Oddampattu .. .. | .. | .. | 226 | .. | 226 | .. | No. 534 of 29th Sept. 1895, *Fort St. George Gazette*, dated 1st Oct. 1895. | |
| | | Sengamedu .. .. | .. | .. | 580 | .. | 580 | .. | No. 22 of 19th Dec. 1895, *Fort St. George Gazette*, dated 7th Jan. 1896. | |
| | | Solavandipuram .. | .. | .. | 763 | .. | 763 | .. | No. 47 of 9th Dec. 1895, *Fort St. George Gazette*, dated 28th Jan. 1896. | |
| | | Kanai .. .. .. | 2,220 | .. | .. | .. | 2,220 | .. | .... | |
| | | Kottalammalai .. | 2,880 | .. | .. | .. | 2,880 | .. | .... | |
| | | Mallapuram .. .. | 1,025 | .. | .. | .. | 1,025 | .. | .... | |
| | | Rungappanur .. | 2,200 | .. | .. | .. | 2,200 | .. | .... | |
| | | Kanankadu .. .. | 3,390 | .. | .. | .. | 3,390 | .. | .... | |
| | | Pavunjipattu .. | 4,100 | .. | .. | .. | 4,100 | .. | .... | |
| | | Porasakurchi .. .. | 910 | .. | .. | .. | 910 | .. | .... | |
| | | Luchiyam .. .. | .. | .. | 670 | .. | 670 | .. | No. 201 of 20th April 1895, *Fort St. George Gazette*, dated 23rd April 1895. | |
| | | Sittalur .. .. | .. | .. | 870 | .. | 870 | .. | No. 323 of 7th June 1895, *Fort St. George Gazette*, dated 18th June 1895. | |
| | No. VI, Kallakurchi. | Indali .. .. .. | .. | .. | 1,133 | .. | 1,133 | .. | No. 443 of 13th Aug. 1895, *Fort St. George Gazette*, dated 20th Aug. 1895. | |
| | | Puttai .. .. | .. | .. | 999 | .. | 999 | .. | No. 444 of 13th Aug. 1895, *Fort St. George Gazette*, dated 20th Aug. 1895. | |
| | | Varanjaram .. .. | .. | .. | 885 | .. | 885 | .. | No. 567 of 23rd Oct. 1895, *Fort St. George Gazette*, dated 29th Oct. 1895. | |
| | | Alathur .. .. | .. | .. | 992 | .. | 992 | .. | No. 607 of 14th Nov. 1895, *Fort St. George Gazette*, dated 19th Nov. 1895. | |
| | | Magarur .. .. | .. | .. | 1,222 | .. | 1,222 | .. | No. 20 of 19th Dec. 1895, *Fort St. George Gazette*, dated 7th Jan. 1896. | |

(*a*) Rectification of area.

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | | *Central Circle*—cont. | | | | | | | | |
| | | Parikam .. .. | .. | .. | 615 | .. | 615 | .. | No. 88 of 18th Feb. 1896, *Fort St. George Gazette*, dated 25th Feb. 1896. | |
| | No. VI, Kallakurchi—*cont.* | Sittal .. .. .. | .. | .. | 1,429 | .. | 1,429 | .. | No. 113 of 4th Mar. 1896, *Fort St. George Gazette*, dated 10th Mar. 1896. | |
| | | Kuttakudi .. .. | .. | .. | 1,285 | .. | 1,285 | .. | No. 141 of 20th Mar. 1896, *Fort St. George Gazette*, dated 24th Mar. 1896. | |
| | | Kuppanattam .. | 840 | .. | .. | (*a*) 82 | 758 | .. | .... | |
| | | Narasingamangalam. | 835 | .. | .. | (*a*) 3 | 832 | .. | .... | |
| South Arcot —*cont.* | | Nangur .. .. | 1,625 | .. | (*a*) 85 | .. | 1,710 | .. | .... | |
| | | Kuttumylore .. | 1,587 | .. | .. | .. | 1,587 | .. | .... | |
| | | Parur .. .. .. | 2,660 | .. | .. | .. | 2,660 | .. | .... | |
| | | Kottanur .. .. | 3,880 | .. | .. | .. | 3,880 | .. | .... | |
| | | Veppur .. .. | 3,800 | .. | .. | .. | 3,800 | .. | .... | |
| | | Kristnapuram .. | 5,910 | .. | .. | .. | 5,910 | .. | .... | |
| | | Ammeri .. .. | 850 | .. | .. | .. | 850 | .. | .... | |
| | | Karmangudi .. .. | 1,150 | .. | .. | (*a*) 50 | 1,100 | .. | .... | |
| | | Vriddhachalam tank. | 192 | .. | .. | .. | 192 | .. | .... | |
| | | Periyanisalur .. | 700 | .. | .. | .. | 700 | .. | .... | |
| | | Kattiyanellore .. | 880 | .. | .. | (*a*) 148 | 732 | .. | .... | |
| | | Semakottai .. .. | 5,770 | .. | .. | .. | 5,770 | .. | .... | |
| | No. VII, Vriddhachalam—*cont.* | Periyakurchi .. .. | 369 | .. | .. | .. | 369 | .. | .... | |
| | | Inadagudi .. .. | 634 | .. | .. | .. | 634 | .. | .... | |
| | | Semakottai block extension. | .. | .. | 174 | .. | 174 | .. | No. 484 of 5th Sept. 1895, *Fort St. George Gazette*, dated 10th Sept. 1895. | |
| | | Parur block extension. | .. | .. | 334 | .. | 334 | .. | No. 609 of 15th Nov. 1895, *Fort St. George Gazette*, dated 19th Nov. 1895. | |
| | | Narimanum .. .. | .. | .. | 900 | .. | 900 | .. | No. 622 of 27th Nov. 1895, *Fort St George Gazette*, dated 3rd Dec. 1895. | 163 acres is due to recomputation. |
| | | Velangulam .. .. | .. | .. | 1,312 | 149 | 1,163 | .. | No. 143 of 19th Mar. 1896, *Fort St. George Gazette*, dated 24th Mar. 1896. | The decrease is 149 acres is doe to recomputation of areas. |
| | | Total .. | 297,288 | 464 | 56,099 | 30,370 | 323,017 | 505 | | |
| | | Buthamalai .. .. | 5,640 | 8·81 | .. | .. | 5,640 | 8·81 | .... | |
| | | Pillappadi .. .. | 4,992 | 7·80 | * 449 | .. | 5,441 | 8·50 | .... | |
| | | Atur ghât .. .. | 3,129 | 4·89 | .. | † 2 | 3,127 | 4·89 | No. 490 of 7th Sept. 1895. | |
| | | Mallapuram ghât .. | 1,952 | 3·05 | .. | .. | 1,952 | 3·05 | .... | |
| | | Narthenchedu .. | 2,598 | 4·06 | .. | .. | 2,598 | 4·06 | .... | |
| | | Vaniyar .. .. | 5,139 | 8·03 | .. | .. | 5,139 | 8·03 | .... | |
| | | Kuttar .. .. | 5,388 | 8·42 | .. | .. | 5,388 | 8·42 | .... | |
| | | Manjavadi ghât .. | 9,491 | 14·83 | .. | .. | 9,491 | 14·83 | .... | |
| | | Mallapuram ghât extension. | 928 | 1·45 | .. | .. | 928 | 1·45 | .... | |
| Salem .. | Salem .. | Ajjampatti .. .. | 1,683 | 2·63 | .. | .. | 1,683 | 2·63 | .... | |
| | | Narthenchedu extension. | 972 | 1·52 | .. | .. | 972 | 1·52 | .... | |
| | | Yerimalai .. .. | 4,140 | 6·47 | .. | .. | 4,140 | 6·47 | .... | |
| | | Kanavoipudur .. | 3,180 | 4·97 | .. | .. | 3,180 | 4·97 | .... | |
| | | Lokur .. | 8,644 | 13·51 | .. | .. | 8,644 | 13·51 | .... | |
| | | Pillappalli Combai, New. | 2,035 | 3·18 | .. | .. | 2,035 | 3·18 | .... | |
| | | Atur ghât extension.. | 492 | ·77 | .. | .. | 492 | ·77 | .... | |
| | | Kanjeri, New .. | 3,494 | 5·46 | .. | † 4 | 3,490 | 5·46 | No. 479 of 7th Sept. 1895. | |

* Excess in survey by survey of India. (*a*) Rectification of area. † Disafforested during the year.

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Central Circle*—cont. | | | | | | | | | |
| | | Pannikaradu .. .. | 6,611 | 10·33 | .. | .. | 6,611 | 10·33 | .... | |
| | | Mallapuram .. .. | 589 | ·92 | .. | .. | 589 | ·92 | .... | |
| | | Karuvattuparai .. | 1,446 | 2·26 | .. | .. | 1,446 | 2·26 | .... | |
| | | Gundakkal .. .. | 2,912 | 4·55 | .. | .. | 2,912 | 4·55 | .... | |
| | | Vanavasi .. .. | 8,169 | 12·77 | .. | .. | 8,169 | 12·77 | .... | |
| | | Manakondamalai .. | 5,353 | 8·37 | .. | .. | 5,353 | 8·37 | .... | |
| | | Puliamkadai .. .. | 524 | ·82 | .. | .. | 524 | ·82 | .... | |
| | | Mattikottai .. .. | 3,500 | 5·46 | * 182 | .. | 3,682 | 5 75 | .... | |
| | | Punjamaduvu .. | 2,500 | 3·90 | .. | † 92 | 2,408 | 3·76 | .... | |
| | | Godumalai .. .. | 5,512 | 8·61 | .. | .. | 5,512 | 8·61 | .... | |
| | | Jalluthu .. .. | 10,110 | 15·80 | .. | .. | 10,110 | 15·80 | .... | |
| | | Kanjamalai .. .. | 4,369 | 6·83 | .. | .. | 4,369 | 6·83 | .... | |
| | | Mary land .. .. | 382 | ·59 | .. | .. | 382 | ·59 | .... | |
| | | Ramasamimalai .. | 2,505 | 3·91 | .. | .. | 2,505 | 3·91 | .... | |
| | | Arasankadu .. .. | 1,657 | 2·59 | .. | .. | 1,657 | 2·59 | .... | |
| | | Kapputhu .. .. | 4,518 | 7·06 | .. | .. | 4,518 | 7·06 | .... | |
| | | Puduppatti .. .. | 7,001 | 10·94 | .. | .. | 7,001 | 10·94 | .... | |
| | | Sannyasimalai .. | 480 | ·75 | .. | .. | 480 | ·75 | .... | |
| | | Kudimaduvu .. .. | 4,307 | 6·73 | * 117 | .. | 4,424 | 6·90 | .... | |
| | Salem—*ro t.* | Kurumbapatti .. | 8,819 | 13·78 | .. | .. | 8,819 | 13·78 | .... | |
| | | Nagaramalai .. .. | 1,139 | 1·78 | .. | .. | 1,139 | 1·78 | .... | |
| | | Ellathur .. .. | 1,268 | 1·98 | .. | .. | 1,268 | 1·98 | .... | |
| | | Bonthakal .. .. | .. | .. | 294 | .. | 294 | ·46 | No. 456 of 23rd and 27th Aug. 1895. | |
| | | Mangalakal .. .. | .. | .. | 313 | .. | 313 | ·49 | No. 477 of 5th and 10th Sept. 1895. | |
| | | Bothakadu .. .. | .. | .. | 2,822 | .. | 2,822 | 4·41 | No. 492 of 5th and 10th Sept. 1895. | |
| | | Pellapalli extension .. | .. | .. | 313 | .. | 313 | ·49 | No. 19 of 16th Dec. 1895 and 7th Jan. 1896. | |
| | | Kuttar do. .. | .. | .. | 1,472 | .. | 1,472 | 2·30 | No. 49 of 9th Dec. 1895 and 28th Jan. 1896. | |
| | | Total .. | 147,568 | 230·58 | 5,962 | 98 | 153,432 | 239·75 | | |
| Salem—*cont.* | | Varagur .. .. | 2,675 | 4·18 | .. | .. | 2,675 | 4·18 | .... | |
| | | Do. extension .. | 486 | ·76 | .. | .. | 486 | ·76 | .... | |
| | | Nayakankombai .. | 2,880 | 4·50 | .. | .. | 2,880 | 4·50 | .... | |
| | | Belur .. .. .. | 6,880 | 10·75 | .. | .. | 6,880 | 10·75 | .... | |
| | | Nagur .. .. | 3,757 | 5·87 | .. | .. | 3,757 | 5·87 | .... | |
| | | Gangavalli .. .. | 7,040 | 11·00 | .. | .. | 7,040 | 11·00 | .... | |
| | | Mannur .. .. | .. | .. | 9,260 | .. | 9,260 | 14·47 | No. 632 of 2nd and 11th Dec. 1895. | |
| | Atur .. | Jadayagoundan slope. | .. | .. | 12,420 | .. | 12,420 | 19·41 | No. 17 of 16th Dec. 1895 and 7th Jan. 1896. | |
| | | Pattimedu .. .. | .. | .. | 3,046 | .. | 3,046 | 4·76 | No. 25 of 19th Dec. 1895 and 7th Jan. 1896. | |
| | | Nagalur .. .. | .. | .. | 5,018 | .. | 5,018 | 7·84 | | |
| | | Thumbal .. .. | .. | .. | 3,670 | .. | 3,670 | 5·73 | | |
| | | Do. extension .. | .. | .. | 1,800 | .. | 1,800 | 2·81 | No. 146 of 20th and 24th Mar. 1896. | |
| | | Total .. | 23,718 | 37·06 | 35,214 | .. | 58,932 | 92·08 | | |
| | Atur and Námakkal. | Karavallicombai .. | 8,755 | 13·68 | .. | .. | 8,755 | 13·68 | .... | |
| | Námakkal | Jambuthu .. .. | 2,617 | 4·09 | .. | .. | 2,617 | 4·09 | .... | |
| | | Puliamsolai .. .. | 5,530 | 8·64 | .. | .. | 5,530 | 8·64 | .... | |
| | | Total .. | 16,902 | 26·41 | .. | .. | 16,902 | 26·41 | | |

* Excess in survey by Survey of India.

† Deficient in survey by Survey of India.

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Central Circle*—cont. | | | | | | | | | |
| Salem—*cont.* | Uttangarai. | Pallipatti .. .. | 8,000 | 12·50 | * 3,192 | .. | 11,192 | 17·49 | .... | |
| | | Thumbal .. .. | 7,757 | 12·12 | * 1,851 | .. | 9,608 | 15·01 | .... | |
| | | Chitteri .. .. | 3,917 | 6·12 | .. | † 459 | 3,458 | 5·40 | .... | |
| | | Chittiluigi .. .. | 6,880 | 10·75 | * 1,462 | .. | 8,342 | 13·04 | .... | |
| | | Kottapatti .. .. | 8,960 | 14·00 | * 2,600 | .. | 11,560 | 18·06 | .... | |
| | | Puvampatti .. .. | 5,286 | 8·26 | .. | .. | 5,286 | 8·26 | .... | |
| | | Ammapolayam .. | 9,216 | 14·40 | * 1,362 | .. | 10,578 | 16·53 | .... | |
| | | Singarapet .. .. | 2,624 | 4·10 | .. | .. | 2,624 | 4·10 | .... | |
| | | Mallapuram extension. | 400 | ·62 | .. | .. | 400 | ·62 | .... | |
| | | Thombakal do. | 3,840 | 6·00 | * 1,723 | .. | 5,563 | 8·69 | .... | |
| | | Nochikuttai .. .. | 7,917 | 12·37 | * 968 | .. | 8,885 | 13·88 | .... | |
| | | Kalnad .. .. | 4,320 | 6·75 | * 1,473 | .. | 5,793 | 9·06 | .... | |
| | | Chetteri extension .. | 2,880 | 4·50 | * 3,091 | .. | 5,971 | 9·33 | .... | |
| | | Veppampatti .. .. | 8,640 | 13·50 | * 2,040 | .. | 10,680 | 16·69 | .... | |
| | | Thirthamalai .. .. | 11,046 | 17·26 | * 5,248 | .. | 16,294 | 25·46 | .... | |
| | | Sundamalli .. .. | 560 | ·87 | .. | .. | 560 | ·87 | .... | |
| | | Pudur Pungani .. | 1,120 | 1·75 | .. | .. | 1,120 | 1·75 | .... | |
| | | Vellakal .. .. | 863 | 1·35 | .. | .. | 863 | 1·35 | .... | |
| | | Goundapuram .. | 2,700 | 4·22 | .. | .. | 2,700 | 4·22 | .... | |
| | | Elavambadi .. .. | .. | .. | 3,838 | .. | 3,838 | 5·99 | No 202 of 18th and 23rd Apr. 1895. | |
| | | Kavuramalai extension. | .. | .. | 3,200 | .. | 3,200 | 5·00 | No. 1300 of 28th May and 11th June 1895. | |
| | Uttangarai and Tiruppattúr. | Puvampatti extension. | .. | .. | 1,544 | .. | 1,544 | 2·42 | No. 4·8 of 23rd Aug. 3rd Sept. 1895. | |
| | | Mukkanur .. .. | .. | .. | 2,060 | .. | 2,060 | 3·21 | No. 482 of 5th and 10th Sept. 1895. | |
| | | Alambadi .. .. | .. | .. | 512 | .. | 512 | ·80 | No. 18 of 16th Dec. 1895 and 7th Jan. 1896. | |
| | | Harur .. .. | .. | .. | 1,679 | .. | 1,679 | 2·62 | No. 145 of 19th and 24th Mar. 1896. | |
| | | Total .. | 96,926 | 151·44 | 37,843 | 459 | 134,310 | 209·85 | | |
| | Tiruppattúr. | Mangalam .. .. | 6,080 | 9·50 | .. | .. | 6,080 | 9·50 | .... | |
| | | Nagaluthu .. .. | 2,560 | 4·00 | .. | .. | 2,560 | 4·00 | .... | |
| | | Mambakam .. .. | 9,370 | 14·64 | .. | 512 | 8,858 | 13·84 | No. 24 of 12th Dec. 1895. | Disafforested during the year. |
| | | Singarapet extension. | 7,398 | 11·56 | .. | .. | 7,398 | 11·56 | .... | |
| | | Pungulam .. .. | 7,834 | 12·24 | .. | .. | 7,834 | 12 24 | .... | |
| | | Madakadappah .. | 2,048 | 3·20 | .. | .. | 2,048 | 3·20 | .... | |
| | | Jollarpet .. .. | 1,216 | 1·90 | .. | .. | 1,216 | 1·90 | .... | |
| | | Narasingapuram .. | 2,048 | 3·20 | .. | .. | 2,048 | 3·20 | .... | |
| | | Kalarapatti .. .. | 2,016 | 3·15 | .. | .. | 2,016 | 3·15 | .... | |
| | | Alangayam .. .. | 11,520 | 18·00 | .. | .. | 11,520 | 18·00 | .... | |
| | | Andiappanur .. .. | 7,500 | 11·71 | .. | .. | 7,500 | 11·71 | .... | |
| | | Inner Jevadis .. | 32,000 | 50·00 | .. | .. | 32,000 | 50·00 | .... | |
| | | Vellakuttai .. .. | .. | .. | 1,092 | .. | 1,092 | 1·70 | No. 466 of 23rd August and 3rd Sept. 1895. | |
| | | Total .. | 91,590 | 143 10 | 1,092 | 512 | 92,170 | 144·00 | | |
| | Krishnagiri. | Burgur, new .. .. | 1,920 | 3·00 | .. | .. | 1,920 | 3·00 | .... | |
| | | Thogarapalli .. | 900 | 1·40 | .. | .. | 900 | 1·40 | .... | |
| | | Neralkotta .. .. | 7,140 | 11·15 | .. | .. | 7,140 | 11·15 | .... | |
| | | Maharajagadai extension. | 2,560 | 4·00 | .. | .. | 2,560 | 4·00 | .... | |
| | | Varattanapalli .. | 2,216 | 3·46 | .. | .. | 2,216 | 3·46 | .... | |
| | | Thattaikall .. .. | 857 | 1·34 | .. | .. | 857 | 1·34 | .... | |
| | Krishnagiri and Tiruppattúr. | Nandikandai .. .. | 2,500 | 3·90 | .. | .. | 2,500 | 3·90 | .... | |
| | | Kothur .. .. | 3,840 | 6·00 | .. | .. | 3,840 | 6·00 | .... | |
| | | Maharajagadai .. | .. | .. | 7,744 | .. | 7,744 | 12·10 | No. 416 of 31st July* and 6th Aug. 1895. | |
| | | Medugampalli, second part. | .. | .. | 36 | .. | 36 | ·06 | No. 149 of 16th and 24th Mar. 1896. | |
| | | Total .. | 21,933 | 34·25 | 7,780 | .. | 29,713 | 46·41 | | |

* Excess in survey by Survey of India. † Deficit in survey by Survey of India.

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *Central Circle*—cont. | | | | | | | | |
| Salem—*cont.* | Hosur .. | Ayur .. .. .. | 5,952 | 9·30 | .. | .. | 5,952 | 9·30 | .... | |
| | | Marandapalli .. | 5,824 | 9·10 | .. | .. | 5,824 | 9·10 | .... | |
| | | Gulhatti, new .. | 7,942 | 12·41 | .. | .. | 7,942 | 12·41 | .... | |
| | | Manchi, new .. .. | 5,632 | 8·80 | .. | .. | 5,632 | 8·80 | .... | |
| | | Javalagiri .. .. | 6,016 | 9·40 | .. | .. | 6,016 | 9·40 | .... | |
| | | Thali .. .. .. | 6,368 | 9·95 | .. | .. | 6,368 | 9·95 | .... | |
| | | Noganur .. .. | 3,200 | 5·00 | .. | .. | 3,200 | 5·00 | .... | |
| | | Denkanikota .. | 2,816 | 4·40 | .. | .. | 2,816 | 4·40 | .... | |
| | | Tholavabetta .. | 6,919 | 10·81 | .. | .. | 6,919 | 10·81 | .... | |
| | | Anchetti .. .. | 8,832 | 13·80 | .. | .. | 8,832 | 13·80 | .... | |
| | | Nattrappalayam .. | 10,880 | 17·00 | .. | .. | 10,880 | 17·00 | .... | |
| | | Biligundulu .. .. | 14,272 | 22·30 | . | .. | 14,272 | 22·30 | .... | |
| | | Kestur .. .. | 11,616 | 18·15 | .. | .. | 11,616 | 18·15 | .... | |
| | | Bellikal .. .. | 11,136 | 17·40 | .. | .. | 11,136 | 17·40 | .... | |
| | | Mallahalli .. .. | 8,928 | 13·95 | .. | .. | 8,928 | 13·95 | .... | |
| | | Thaggatti .. .. | 10,432 | 16·30 | .. | .. | 10,432 | 16·30 | .... | |
| | | Galigattam .. .. | 6,080 | 9·50 | .. | .. | 6,080 | 9·50 | .... | |
| | | Kistur extension . | 3,600 | 5·63 | .. | .. | 3,600 | 5·63 | .... | |
| | | Thalli do. .. | 4,320 | 6·75 | .. | .. | 4,320 | 6·75 | .... | |
| | | Total .. | 140,765 | 219·95 | .. | .. | 140,765 | 219·95 | | |
| | Dharmapuri. | Pennagaram .. .. | 10,304 | 16·10 | .. | .. | 10,304 | 16·10 | .... | |
| | | Morappur .. .. | 16,640 | 26·00 | .. | .. | 16,640 | 26·00 | .... | |
| | | Bianoormalai .. | 11,500 | 17·97 | .. | .. | 11,500 | 17·97 | .... | |
| | | Masakkal .. .. | 9,600 | 15·00 | .. | .. | 9,600 | 15·00 | .... | |
| | | Perumbalaimalai .. | 12,000 | 18·75 | .. | .. | 12,000 | 18·75 | .... | |
| | | Thoppur .. .. | 7,000 | 10·93 | .. | .. | 7,000 | 10·93 | .... | |
| | | Kesaruguli .. .. | 6,400 | 10·00 | .. | .. | 6,400 | 10·00 | .... | |
| | | Pikkilimalai .. | 6,400 | 10·00 | .. | .. | 6,400 | 10·00 | .... | |
| | | Bathavadi .. .. | 27,000 | 42·19 | .. | .. | 27,000 | 42·19 | .... | |
| | | Kallappambadi .. | 9,500 | 14·84 | .. | .. | 9,500 | 14·84 | .... | |
| | Hosur and Dharmapuri. | Woddappatti .. .. | 17,152 | 26·80 | .. | .. | 17,152 | 26·80 | .... | |
| | | Gutturayan .. .. | 15,776 | 24·85 | .. | .. | 15,776 | 24·65 | .... | |
| | | Siharalahalliparappadipalli. | .. | .. | 1 | .. | 1 | .. | No. 483 of 5th and 10th Sept. 1895. | |
| | | Total .. | 149,272 | 233· | 1 | .. | 149,273 | 233·23 | | |
| | Tiruchengódu. | Pakkanadu .. .. | 4,086 | 6·38 | .. | .. | 4,086 | 6·38 | .... | |
| | | Suriyamalai .. .. | 4,166 | 6·51 | .. | .. | 4,166 | 6·51 | .... | |
| | | Total .. | 8,252 | 128·9 | .. | .. | 8,252 | 12·89 | | |
| | | Grand total .. | 696,926 | 1,089 | 87,892 | 1,069 | 783,749 | 1,224 | | |
| Trichinopoly. | Trichinopoly. | Tuvakudi .. .. | 1,438 | .. | .. | .. | 1,438 | .. | .... | |
| | Kulitalai. | Elamanur .. . | 117 | .. | .. | .. | 117 | . | .... | |
| | | Pettavathalai .. | 137 | .. | .. | .. | 137 | .. | .... | |
| | | Kulitalai .. .. | 77 | .. | .. | .. | 77 | .. | .... | |
| | | Manattattai .. | 45 | .. | .. | .. | 45 | .. | .... | |
| | | Lalapet .. .. | 268 | .. | .. | .. | 268 | .. | .... | |
| | | Sittalavoi .. .. | 160 | .. | .. | .. | 160 | .. | .... | |
| | | Kattalai .. .. | 75 | .. | .. | .. | 75 | .. | .... | |
| | | Tainimalai .. .. | 464 | .. | .. | .. | 464 | .. | .... | |
| | | Minnakaradu .. | 98 | .. | .. | .. | 98 | .. | .... | |
| | | Panjantangi Hill .. | 1,543 | .. | .. | .. | 1,543 | .. | .... | |
| | | Veeramalai Hills .. | 5,472 | .. | .. | .. | 5,472 | .. | .... | |
| | | Poigapatti Hills .. | 639 | .. | .. | .. | 639 | .. | .... | |
| | | Shenmalai No. I .. | 2,477 | .. | .. | .. | 2,477 | .. | .... | |
| | | Pakkirikaradu .. | 65 | .. | .. | .. | 65 | .. | .... | |
| | | Puthanatham Range comprising Kurumalai, Palamalai and Nedumalai. | 705 | .. | .. | .. | 705 | .. | .... | |
| | | Surpam Range .. | 1,403 | .. | .. | .. | 1,403 | .. | .... | |
| | | Muthalamalai .. | 465 | .. | .. | .. | 465 | .. | .... | |
| | | Shenmalai No. II .. | 1,593 | .. | .. | .. | 1,593 | .. | .... | |
| | | Marudur .. .. | 180 | .. | .. | .. | 180 | .. | .... | |
| | | Mayanur .. .. | 50 | .. | .. | .. | 50 | .. | .... | |
| | | Segamkardu .. .. | 714 | .. | .. | .. | 714 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *Central Circle*—cont. | | | | | | | | |
| Trichinopoly —*cont.* | Kulitalai —*cont.* | Panjantangi Valley.. | 286 | .. | .. | .. | 286 | .. | .... | |
| | | Karupur Reddiapatti Hills | 3,600 | .. | .. | .. | 3,600 | .. | .... | |
| | | Vaiyamalai Kilkadu. | 250 | .. | .. | .. | 250 | .. | .... | |
| | | Amayapuram Perumarsikadu. | 600 | .. | .. | .. | 600 | .. | .... | |
| | Musiri .. | Sengattupatti .. | 3,000 | .. | .. | .. | 3,000 | .. | .... | |
| | | Melur .. | 3,000 | .. | .. | .. | 3,000 | .. | .... | |
| | | Kaliammankoil thittu. | 1,500 | .. | .. | .. | 1,500 | .. | .... | |
| | | Karupankadu thittu.. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |
| | | Kanappadi Kannimar sholai. | 2,560 | .. | .. | .. | 2,560 | .. | .... | |
| | | Kanappadi and Thenpiranadu. | 12,021 | .. | .. | .. | 12,021 | .. | .... | |
| | Perambalúr. | Palamalai .. .. | 10,000 | .. | .. | .. | 10,000 | .. | .... | |
| | | Vannadu Kanappadi. | 10,000 | .. | .. | .. | 10,000 | .. | .... | |
| | | Manmalai .. .. | 6,000 | .. | .. | .. | 6,000 | .. | .... | |
| | | Manalodai .. .. | 4,000 | .. | .. | .. | 4,000 | .. | .... | |
| | | Sholamattu .. .. | 7,000 | .. | .. | .. | 7,000 | .. | .... | |
| | | Selaiyur .. .. | 1,600 | .. | .. | .. | 1,600 | .. | .... | |
| | | Puliyur .. .. | 10,000 | .. | .. | .. | 10,000 | .. | .... | |
| | | Semmalai .. .. | 5,000 | .. | .. | .. | 5,000 | .. | .... | |
| | | Sengattur .. .. | 10,000 | .. | .. | .. | 10,000 | .. | .... | |
| | Udaiyárpálaiyam. | Adanakurichi | 250 | .. | .. | .. | 250 | .. | .... | |
| | | Malangankudiyiruppu | 150 | .. | .. | .. | 150 | .. | .... | |
| | | Tennamanallur | 10 | .. | .. | .. | 10 | .. | .... | |
| | | Valvkurichi .. .. | 48 | .. | .. | .. | 48 | .. | .... | |
| | | Sittidayar .. .. | 53 | .. | .. | .. | 53 | .. | .... | |
| | | Lasikkulam .. .. | 100 | .. | .. | .. | 100 | .. | .... | |
| | | Periyakurichi . | 147 | .. | .. | .. | 147 | .. | .... | |
| | | Sattambodi .. .. | 1,000 | .. | .. | .. | 1,000 | .. | .... | |
| | | Kolamanikam .. | 236 | .. | .. | .. | 236 | .. | .... | |
| | | Vettiarvettu Nos. I and II. | 620 | .. | .. | .. | 620 | .. | .... | |
| | | Aramanaikurichi . | 91 | .. | .. | .. | 91 | .. | .... | |
| | | Sundaresvarapuram .. | 150 | .. | .. | .. | 150 | .. | .... | |
| | | Ambappur .. .. | 200 | .. | .. | .. | 200 | .. | .... | |
| | | Ullinkudi .. .. | 196 | .. | .. | .. | 196 | .. | .... | |
| | | Alavoy .. .. | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Annagirampettai Nos. I to V. | 57 | .. | .. | .. | 57 | .. | .... | |
| | | Mudukolam .. .. | 1,197 | .. | .. | .. | 1,197 | .. | .... | |
| | | Periyavalayam .. | 985 | .. | .. | .. | 985 | .. | .... | |
| | | Vilangudi .. .. | 900 | .. | .. | .. | 900 | .. | .... | |
| | | Ayyúr .. .. | 1,400 | .. | .. | .. | 1,400 | .. | .... | |
| | | Varappanakurichi .. | 190 | .. | .. | .. | 190 | .. | .... | |
| | | Sripuranambits Nos. I and II. | 457 | .. | .. | .. | 457 | .. | .... | |
| | | Kovilur .. .. | 700 | .. | .. | .. | 700 | .. | .... | |
| | | Jayamkondasholapuram No. I. | 150 | .. | .. | .. | 150 | .. | .... | |
| | | Jayamkondasholapuram No. II. | 290 | .. | .. | .. | 290 | .. | .... | |
| | | Kanguli .. .. | 800 | .. | .. | .. | 800 | .. | .... | |
| | | Vanavanallur .. | 197 | .. | .. | .. | 197 | .. | .... | |
| | | Pirukonam .. .. | 650 | .. | .. | .. | 650 | .. | .... | |
| | | Kodukur .. . | 92 | .. | .. | .. | 92 | .. | .... | |
| | | Kulumur .. .. | 200 | .. | .. | .. | 200 | .. | .... | |
| | | Karaipakkam .. | 83 | .. | .. | .. | 83 | .. | .... | |
| | | Tiruvenganur .. | 136 | .. | .. | .. | 136 | .. | .... | |
| | | Sattambodi .. .. | 179 | .. | .. | .. | 179 | .. | .... | |
| | | Total .. | 122,816 | 192 | .. | .. | 1,22,816 | 192 | | |
| Tanjore. | Northern Range. | Thiyali taluk— | | | | | | | | |
| | | Vettangudi .. | 1,893 | .. | .. | .. | 1,893 | .. | .... | |
| | | * Northern casuarina. | 350 | .. | .. | .. | 350 | .. | .... | * These are the blocks which it is proposed to retain as reserved forests. |
| | | * Southern casuarina. | 250 | .. | .. | .. | 250 | .. | .... | |
| | | * Nidivasal .. | 42 | .. | .. | .. | 42 | .. | .... | |
| | | Elantope .. | 17 | .. | .. | .. | 17 | .. | .... | |
| | Southern Range. | Tirutturaippándi taluk— | | | | | | | | |
| | | * Koditakadu .. | 4,204 | .. | .. | .. | 4,204 | .. | .... | |
| | | * Palanayar .. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Central Circle*—cont. | | | | | | | | | |
| | | Tiruttuaippindi taluk—*cont.* | | | | | | | | |
| | | Maltottam, east | 10 | .. | .. | .. | 10 | .. | .... | |
| | | Do. west. | 8 | .. | .. | .. | 8 | .. | .... | |
| | | Manakadu .. | 120 | .. | .. | .. | 120 | .. | .... | |
| | | Tillaivilagam .. | 320 | .. | .. | .. | 320 | .. | .... | |
| | | Tanjore taluk— | | | | | | | | |
| | | * Nadur No I .. | 1,000 | .. | .. | .. | 1,000 | .. | .... | |
| | | * Do. No. II .. | 200 | .. | .. | .. | 200 | .. | .... | |
| Tanjore—cont. | Southern Range—cont. | * Thatchankurichy. | 320 | .. | .. | .. | 320 | .. | .... | |
| | | * Veeralipatti, North block. | 145 | .. | .. | .. | 145 | .. | .... | * These are the blocks which it is proposed to retain as reserved forests. |
| | | * Veeralipatti, South block. | 234 | .. | .. | .. | 234 | .. | .... | |
| | | * Kollangarai .. | 458 | .. | .. | .. | 458 | .. | .... | |
| | | * Puttuu No I .. | 191 | .. | .. | .. | 191 | .. | .... | |
| | | * Do. No. II. | 119 | .. | .. | .. | 119 | .. | .... | |
| | | Kalluppatti .. | 85 | .. | .. | .. | 85 | .. | .... | |
| | | Mannárgudi taluk— | | | | | | | | |
| | | Edangansotti .. | 194 | .. | .. | .. | 194 | .. | .... | |
| | | Total .. | 12,160 | 19 | .. | .. | 12,160 | 19 | .... | |
| | *Southern Circle.* | | | | | | | | | |
| | Nángunéri. | Reserve No. I .. | 28,793·60 | .. | .. | .. | 28,793·60 | .. | .... | |
| | | Teak tract .. .. | 284·26 | .. | .. | .. | 284·26 | .. | .... | |
| | | Block No. I-*a* .. | 22,323·20 | .. | .. | .. | 22,323·20 | .. | .... | |
| | | Total .. | 51,401·06 | 80·315 | .. | . | 51,401·06 | 80·315 | | |
| | Ambásamudram. | Reserve No. II .. | 67,532·80 | .. | .. | .. | 67,532·80 | .. | .... | |
| | | Mullimmalai .. .. | 457·10 | .. | .. | .. | 457·10 | .. | .... | |
| | | Kaliammankoilparai. | 309·33 | .. | .. | .. | 309·33 | .. | .... | |
| | | Salupparpothai .. | 70·72 | .. | .. | .. | 70·72 | .. | .... | |
| | | Koviladiparai .. | 124·38 | .. | .. | .. | 124·38 | .. | .... | |
| | | Block No. II-*a* .. | 3,187·20 | .. | .. | .. | 3,187·20 | .. | .... | |
| | | Do. „ II-*b* .. | 19,539·20 | .. | .. | .. | 19,539·20 | .. | .... | |
| | | Kolundumamalai .. | 1,540·00 | .. | .. | .. | 1,540·00 | .. | .... | |
| | | Total .. | 92,760·73 | 144·938 | .. | .. | 92,760·73 | 144·938 | | |
| | Tenkási.. | Reserve No. III .. | 17,574·40 | .. | .. | .. | 17,574·40 | .. | .... | |
| | | Okkinranpothai .. | 83·20 | .. | .. | .. | 83·20 | .. | .... | |
| | | Kavalkuttiparambu .. | 371·20 | .. | .. | .. | 371·20 | .. | .... | |
| | | Kottamalai . .. | 883·20 | .. | .. | .. | 883·20 | .. | .... | |
| | | Nalankurichi .. .. | 217·60 | .. | .. | .. | 217·60 | .. | .... | |
| | | Chinnakadu as defined in Mr Baber's decision of claims on inamdars. | 1,388·80 | .. | .. | .. | 1,388·80 | .. | .... | |
| Tinnevelly. | | Block No. III-*a* .. | 678·40 | .. | .. | .. | 678·40 | .. | .... | |
| | | Do. „ III-*b* .. | 554·00 | .. | .. | .. | 554·00 | .. | .... | |
| | | Do. „ III-$c^1$ .. | 582·40 | .. | .. | .. | 582·40 | .. | .... | |
| | | Do. „ III-$c^2$ .. | 1,171·20 | .. | .. | .. | 1,171·20 | .. | .... | |
| | | Do. „ III-*d* .. | 531·20 | .. | .. | .. | 531·20 | .. | .... | |
| | | Total .. | 24,035·60 | 37·555 | .. | .. | 24,035·60 | 37·555 | | |
| | Sankaranayinárkóyil. | Reserve No IV .. | 16,038·40 | .. | .. | .. | 16,038·40 | .. | .... | |
| | | Chunnambuparambu. | 286·00 | .. | .. | .. | 286·00 | .. | .... | |
| | | Block No. IV-*a* .. | 10,496·00 | .. | .. | .. | 10,496·00 | .. | .... | |
| | | Sayamalai .. .. | 294·15 | .. | .. | .. | 294·15 | .. | .... | |
| | | Total .. | 27,114·55 | 42·367 | .. | .. | 27,114·55 | 42·367 | | |
| | Srívilliputtúr. | Reserve No. V .. | 14,796·80 | .. | .. | .. | 14,796·80 | .. | .... | |
| | | Unnipathimalai .. | 559·40 | .. | .. | .. | 559·40 | .. | .... | |
| | | Sappaniparambu .. | 384·00 | .. | .. | .. | 384·00 | .. | .... | |
| | | Pulpathiparambu .. | 51·20 | .. | .. | .. | 51·20 | .. | .... | |
| | | Marthandamparai .. | 134·51 | .. | .. | .. | 134·51 | .. | .... | |
| | | Kothankulam .. | 550·40 | .. | .. | .. | 550·40 | .. | .... | |
| | | Block No. V-*a* . | 28,172·80 | .. | .. | .. | 28,172·80 | .. | .... | |
| | | Valaikulamparambu. | 1,145·60 | .. | .. | .. | 1,145·60 | .. | .... | |
| | | Total .. | 45,785·71 | 71·540 | .. | .. | 45,785·71 | 71·540 | | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | | *Southern Circle*—cont. | | | | | | | | |
| Tinnevelly —*cont.* | Tinnevelly. | Thalaiyuthu .. .. | 890·81 | .. | .. | .. | 890·81 | .. | .... | |
| | | Sivalaperi .. .. | 263·14 | .. | .. | .. | 263·14 | .. | .... | |
| | | Total .. | 1,153·95 | 1·803 | .. | .. | 1,153·95 | 1·803 | .... | |
| | Srivaikuntam. | Pannamparai .. | 116·60 | .. | .. | .. | 116·60 | .. | .... | |
| | | Kaliyavur .. .. | 158·07 | .. | .. | .. | 158·07 | .. | .... | |
| | | Kottamadakikadu .. | 1,279·23 | .. | .. | .. | 1,279·23 | .. | .... | |
| | | Kongarayakurichi .. | 60·00 | .. | .. | .. | 60·00 | .. | .... | |
| | | Vellanad .. .. | 4,659·20 | .. | .. | .. | 4,659·20 | .. | .... | |
| | | Kudiraimoliteri .. | 13,392·59 | .. | .. | .. | 13,392·59 | .. | .... | |
| | | Total .. | 19,665·69 | 30·728 | .. | .. | 19,665·69 | 30·728 | .... | |
| | Ottappidáram. | Virisampatti .. .. | 294·34 | .. | .. | .. | 294·34 | .. | No. 133 of 24th March 1890. | |
| | | Milavittan .. .. | 708·37 | .. | .. | .. | 708·37 | .. | No. 271 of 17th June 1891. | |
| | | Total .. | 1,002·71 | 1·566 | .. | .. | 1,002·71 | 1·566 | .... | |
| | | Grand Total .. | 262,920 | 411 | .. | .. | 262,920 | 411 | .... | |
| | | *Cumbum valley—East.* | | | | | | | | |
| | | Block No. 1, Kuttinachiar. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Block No. 2, Surulipatti. | 5,760 | .. | .. | .. | 5,760 | .. | .... | |
| | | Block No. 3, Panduratorai. | 300 | .. | .. | .. | 300 | .. | .... | |
| | | Block No. 4, Vannatiparai. | 27,520 | .. | .. | .. | 27,520 | .. | .... | |
| | | Block No. 5, Melagudalur. | 1,280 | .. | .. | .. | 1,280 | .. | .... | |
| | | Block No. 6, Sangilikaradu. | 275 | .. | .. | .. | 275 | .. | .... | |
| | | Block No. 7, Dhonikaradu. | 1,114 | .. | .. | .. | 1,114 | .. | .... | |
| | | Block No. 8, Puvathukkaradu. | 1,024 | .. | .. | .. | 1,024 | .. | .... | |
| | | Block No. 9. Boothakaradu. | 934 | .. | .. | .. | 934 | .. | .... | |
| | | Block No. 10, Pottaikaradu. | 147 | .. | .. | .. | 147 | .. | .... | |
| | | Block No. 11, Vellaikaradu. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | *Cumbum valley—West.* | | | | | | | | |
| Madura. | No. I Cumbum valley. | Block No. 1, Suranganur. | 3,616 | .. | .. | .. | 3,616 | .. | .... | |
| | | Block No. 2, Matchukal. | 2,560 | .. | .. | .. | 2,560 | .. | .... | |
| | | Block No. 3, Kombai. | 3,840 | .. | .. | .. | 3,840 | .. | .... | |
| | | Do. ,, 5, Pannimothukaradu. | 377 | .. | .. | .. | 377 | .. | .... | |
| | | Block No. 6, Shallimalaikaradu. | 442 | .. | .. | .. | 442 | .. | .... | |
| | | Sangan karadu .. | 836 | .. | .. | .. | 836 | .. | .... | |
| | | *Allinagaram.* | | | | | | | | |
| | | Block No. 1, Tambiran kanal. | 256 | .. | .. | .. | 256 | .. | .... | |
| | | Block No. 2) Agamalai. | 3,673 | .. | .. | .. | 3,673 | .. | .... | |
| | | Block No. 3. Valkaradu. | 717 | .. | .. | .. | 717 | .. | .... | |
| | | Block No. 4, Perumalkoilkaradu. | 640 | .. | .. | .. | 640 | .. | .... | |
| | | Block No. 5, Sungakaradu. | 836 | .. | .. | .. | 836 | .. | .... | |
| | | *Nagamalai.* | | | | | | | | |
| | | Block No. 1, Vattilapatti. | 698 | .. | .. | .. | 698 | .. | .... | |
| | | Block No. 4, Vikramangalam | 3,789 | .. | .. | .. | 3,789 | .. | .... | |

Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion, | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Southern Circle*—cont. | | | | | | | | | |
| Madura—*cont.* | No. I, Cumbum valley—*cont.* | *Andipetti.* | | | | | | | | |
| | | Block No. 1, Andipatti (northern). | 3,151 | .. | .. | .. | 3,151 | .. | .... | |
| | | Block No 3, Andipatti (central). | 374 | .. | .. | .. | 374 | .. | .... | |
| | | *Rajadani.* | | | | | | | | |
| | | Block No. 1, Ambukaradu. | 360 | .. | .. | .. | 360 | .. | .... | |
| | | Block No. 2, Rajadani. | 2,720 | .. | .. | .. | 2,720 | .. | .... | |
| | | Block No. 3, Valayapatti. | 947 | .. | .. | .. | 947 | .. | .... | |
| | | *Palni Hills, southern slopes—West.* | | | | | | | | |
| | | Block No. 1, Amburuvi. | 6,400 | .. | .. | .. | 6,400 | .. | .... | |
| | | Block No. 2, Sengalvaraiar. | 4,609 | .. | .. | .. | 4,609 | .. | .... | |
| | | Block No. 3, Kurungaldhonimedu. | 1,920 | .. | .. | .. | 1,920 | .. | .... | |
| | | Block No. 4, Pamban. | 4,243 | .. | .. | .. | 4,243 | .. | .... | |
| | | Do. ,, 5, Adukkam | 3,200 | .. | .. | .. | 3,200 | .. | .... | |
| | | Murugamalai .. | 6,572 | .. | .. | .. | 6,572 | .. | .... | |
| | | *Palni Hills, northern slopes—West.* | | | | | | | | |
| | | Block No. 1, Perumbarai Vilpatti valley. | 13,587 | .. | .. | .. | 13,587 | .. | .... | |
| | | Block No. 2, Velancombai. | 1,600 | .. | .. | .. | 1,600 | .. | .... | |
| | | Block No. 3, Velancombai, plantation. | 54 | .. | .. | .. | 54 | .. | .... | |
| | | Block No. 4, Oliyanuthu odai | 3,200 | .. | .. | .. | 3,200 | .. | .... | |
| | | Block No. 5, Kukal .. | 9,645 | .. | .. | .. | 9,645 | .. | .... | |
| | | Do. ,, 6, Kudraiyar. | 10,061 | .. | .. | .. | 10,061 | .. | .... | |
| | | Block No. 7, Karadikuttu. | 957 | .. | .. | .. | 957 | .. | .... | |
| | | *Perumalmalai.* | | | | | | | | |
| | No. II, Kodaikanal | Block No. 1, Perumalmalai. | | | | | | | | |
| | | Block No. 2, Thogavaraishola. | 7,386 | .. | .. | .. | 7,386 | .. | .... | |
| | | Block No. 3, Talaiarkad. | | | | | | | | |
| | | Block No. 4, Kadamaravu. | | | | | | | | |
| | | *Upper Palni sholas.* | | | | | | | | |
| | | Block No. 1, Peramalmalai. | | | | | | | | |
| | | Block No. 2, Serathan kanal. | | | | | | | | |
| | | Block No. 3, Tiger shola. | | | | | | | | |
| | | Block No. 4, Kodaikanal. | | | | | | | | |
| | | Block No. 5, Gundan and Manavan. | | | | | | | | |
| | | Block No. 6, Parappar | 2,316 | .. | .. | .. | 2,316 | .. | .... | |
| | | Do. ,, 7, Pannitulam. | | | | | | | | |
| | | Block No. 8, Gunden. | | | | | | | | |
| | | Do. ,, 9, Sandanam. | | | | | | | | |
| | | Block No. 10, Fort, Hamilton. | | | | | | | | |
| | | Block No. 11, Mariyan. | | | | | | | | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Southern Circle*—cont. | | | | | | | | | |
| | | *Upper Palni Plantations.* | | | | | | | | |
| | No. II, Kodaikanal—*cont.* | Block No. 1, Gundan shola A. Block No. 2, Gundan shola B. Block No. 3, Post office. Block No. 4, Pumbarai. | 335 | .. | .. | .. | 335 | .. | .... | |
| | | Perumalmalai shola .. | .. | .. | 347 | .. | 347 | .. | No. 81, of 12th Feb. 1896. | |
| | | Gundan .. .. | .. | .. | 439 | .. | 439 | .. | | |
| | | Manavartan kanal .. | .. | .. | 56 | .. | 56 | .. | | |
| | | Kundukadu kanal .. | .. | .. | 332 | .. | 332 | .. | | |
| | | Tulkadu kanal .. | .. | .. | 268 | .. | 268 | .. | | |
| | | Kuttukalkadu kanal . | .. | .. | 36 | .. | 36 | .. | | |
| | | Pannitulam kanal .. | .. | .. | 15 | .. | 15 | .. | No. 85, of 15th Feb. 1896. | |
| | | Kolaviri kanal .. | .. | .. | 36 | .. | 36 | .. | | |
| | | Chendanur .. .. | .. | .. | 443 | .. | 443 | .. | | |
| | | Pukadu .. .. | .. | .. | 242 | .. | 242 | .. | No. 85, of 15th Feb. 1896. | |
| | | Kilanvaiyal .. .. | .. | .. | 568 | .. | 568 | .. | | |
| | | Glenfall's shola .. | .. | .. | 36 | .. | 36 | .. | | |
| | | Parappan shola .. | .. | .. | 55 | .. | 55 | .. | No. 109, of 4th Mar. 1896. | |
| | | Nettle shola .. .. | .. | .. | 16 | .. | 16 | .. | | |
| Madura —*cont.* | | Kulvan Kanai kanal. | .. | .. | 52 | .. | 52 | .. | | |
| | | Gundar valley .. | .. | .. | 3,988 | .. | 3,988 | .. | | |
| | | *Palni Hills, southern slopes—East.* | | | | | | | | |
| | | Block No. 1, Marudunadiar | 6,528 | .. | .. | .. | 6,528 | .. | .... | |
| | | Block No. 2, Kudajuthodi. | 1,280 | .. | .. | .. | 1,280 | .. | .... | |
| | | Block No. 3, Arunkanal. | 1,920 | .. | .. | .. | 1,920 | .. | .... | |
| | | Block No. 4, Arunshola. | 32 | .. | .. | .. | 32 | .. | .... | |
| | | Block No. 5, southern slopes. | 25,600 | .. | .. | .. | 25,600 | .. | .... | |
| | | Block No. 6, Unjalvachi. | 256 | .. | .. | .. | 256 | .. | .... | |
| | No. III, Tandigadi. | Block No. 7, Varathan kanal. | 160 | .. | .. | .. | 160 | .. | .... | |
| | | Block No. 8, Iruthankanal. | 100 | .. | .. | .. | 100 | .. | .... | |
| | | Block No. 9, Mankaradu. | 2,121 | .. | .. | .. | 2,121 | .. | .... | |
| | | Pambukallar .. .. | 800 | .. | .. | .. | 800 | .. | .... | |
| | | Kokkuparai .. .. | 320 | .. | .. | .. | 320 | .. | .. . | |
| | | *Palni Hills, northern slopes—East.* | | | | | | | | |
| | | Block No. 1, Siruvathukadu. | 2,279 | .. | .. | .. | 2,279 | .. | .. . | |
| | | Block No. 2, northern slopes. | 12,800 | .. | .. | .. | 12,800 | .. | .... | |
| | | Block No. 3, Vennilai. | 4,800 | .. | .. | .. | 4,800 | .. | .... | |
| | | Do ,, 4, Kanienkadu. | 3,002 | .. | .. | .. | 3,002 | .. | .... | |
| | | Block No. 5, Norchiarkadu. | 200 | .. | .. | .. | 200 | .. | .... | |
| | | Block No. 6, Talaiarandarkoilkadu. | 30 | .. | .. | .. | 30 | .. | .... | |
| | | *Kallar.* | | | | | | | | |
| | | Block No. 1, Kallar. | 9,600 | .. | .. | .. | 9,600 | .. | .... | |
| | | Do. ,, 2, Ariynuthukanal. | 64 | .. | .. | .. | 64 | .. | .... | |
| | | Block No. 3, Kumangoraimalaikad. | 80 | .. | .. | .. | 80 | .. | .... | |
| | | *Lower Palni sholas.* | | | | | | | | |
| | | Block No. 1, Kadavu. | 64 | .. | .. | .. | 64 | .. | .... | |
| | | Do. ,, 2, Peterunkanal. | 80 | .. | .. | .. | 80 | .. | .... | |
| | | Kondarankimalai .. | 308 | .. | .. | .. | 308 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Southern Circle*—cont. | | | | | | | | | |
| | | *Rengamalai.* | | | | | | | | |
| | No. III, Tandigadi—*cont.* | Block No. 1, Rengamalai. | 967 | .. | .. | .. | 967 | .. | .... | |
| | | Block No. 2, Karumalai. | 2,004 | .. | .. | .. | 2,004 | .. | .... | |
| | | Guvukkapatti .. | 115 | .. | .. | .. | 115 | .. | .... | |
| | | Kuchukaradu .. | .. | .. | 1,107 | .. | 1,107 | .. | No. 327, of 12th June 1895. | |
| | | Sengattampatti .. | 1,600 | .. | .. | .. | 1,600 | .. | .... | |
| | | Kadavakurichi .. | 3,200 | .. | .. | .. | 3,200 | .. | .... | |
| | | *Sirumalai.* | | | | | | | | |
| | | Block No. 1, Sirumalai. | 21,786 | .. | .. | .. | 21,786 | .. | .... | |
| | | Block No. 2, Katchakutti. | 1,745 | .. | .. | .. | 1,745 | .. | .... | |
| | | Block No. 4, Sembatti hills. | 2,415 | .. | .. | .. | 2,415 | .. | .... | |
| | No. IV, Palamedu | Waguthamalai .. | 6,089 | .. | .. | .. | 6,089 | .. | .... | |
| | | *Alagar Hill.* | | | | | | | | |
| | | Block No. 1, Alagar, hill | 16,838 | .. | .. | .. | 16,838 | .. | .... | |
| | | Block No. 2, Kiluvamalai. | 2,000 | .. | .. | .. | 2,000 | .. | .... | |
| | | Block No. 6, Moorookaradu. | 276 | .. | .. | .. | 276 | .. | .... | |
| | | *Perumalai.* | | | | | | | | |
| Madura —*cont.* | | Block No. 3, Perumalai. | 516 | .. | .. | .. | 516 | .. | .... | |
| | | Chembulimalai .. | 1,600 | .. | .. | .. | 1,600 | .. | .... | |
| | | Nedumalai .. .. | 1,089 | .. | .. | .. | 1,089 | .. | .... | |
| | | *Mottamalai.* | | | | | | | | |
| | | Block No. 1, Mottamalai. | 800 | .. | .. | .. | 800 | .. | .... | |
| | | *Perumalai.* | | | | | | | | |
| | | Block No. 1, Perumalai. | 9,600 | .. | .. | .. | 9,600 | .. | .... | |
| | | Budagudimalai .. | 1,120 | .. | .. | .. | 1,120 | .. | .... | |
| | | Palamalai .. .. | 800 | .. | .. | .. | 800 | .. | .... | |
| | | *Kanavoipatti.* | | | | | | | | |
| | | Block No. 1, Karandamalai. | 22,077 | .. | .. | .. | 22,077 | .. | .... | |
| | | Block No. 2, Kuparuvalikuttu. | 845 | .. | .. | .. | 845 | .. | .... | |
| | | Block No. 3, Akkamakaradu. | 301 | .. | .. | .. | 301 | .. | .... | |
| | | Block No. 4, Tenkal. | 589 | .. | .. | .. | 589 | .. | .... | |
| | | Mudimalai .. .. | 4,435 | .. | .. | .. | 4,435 | .. | .... | |
| | No. V, Kanavoipatti. | *Aiyalur.* | | | | | | | | |
| | | Block No. 1, Pillayarnattam. | 5,485 | .. | .. | .. | 5,485 | .. | .... | |
| | | Block No. 2, Panjamtangi. | 7,423 | .. | .. | .. | 7,423 | .. | .... | |
| | | Block No. 3, Tannirkaradu. | 966 | .. | .. | .. | 966 | .. | .... | |
| | | Block No. 4, Sundamalai. | 410 | .. | .. | .. | 410 | .. | .... | |
| | | Block No. 5, Berinjikaradu. | 244 | .. | .. | .. | 244 | .. | .... | |
| | | Block No. 6, Pannamalai. | 1,000 | .. | .. | .. | 1,000 | .. | .... | |
| | | Block No. 7, Parayankaradu. | 559 | .. | .. | .. | 559 | .. | .... | |
| | | Block No 9. Perumalkoil karadu. | 433 | .. | .. | .. | 433 | .. | .... | |
| | | Block No. 11, Bodamalai. | 415 | .. | .. | .. | 415 | .. | .... | |
| | | Block No. 12, Silakaradu. | 516 | .. | .. | .. | 516 | .. | .... | |
| | | Block No. 13, Sigankaradu. | 168 | .. | .. | .. | 168 | .. | .... | |
| | | Block No. 14, Natchikaradu. | 143 | .. | .. | .. | 143 | .. | .... | |

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *Southern Circle*—cont. | | | | | | | | |
| Madura—*cont.* | No. V, Konavoipatti—*cont.* | *Nadumandalam.* | | | | | | | | |
| | | Block No. 2, Nadunkuttu. | 915 | .. | .. | .. | 915 | .. | .... | |
| | | Block No. 3, Settur Nedumalai. | 361 | .. | .. | .. | 361 | .. | .... | |
| | | Block No. 5, Chitrakuttu. | 115 | .. | .. | .. | 115 | .. | .... | |
| | | Kodangikuttu .. | 3,969 | .. | .. | .. | 3,969 | .. | .... | |
| | | *Kottampatti.* | | | | | | | | |
| | | Block No. 3, Valacheripatti hills. | 1,119 | .. | .. | .. | 1,119 | .. | .... | |
| | | *Sendurai.* | | | | | | | | |
| | | Block No. 1, Ottarankuttu. | 370 | .. | .. | .. | 370 | .. | .... | |
| | | Block No. 2, Kuluvadimalai. | 673 | .. | .. | .. | 673 | .. | .... | |
| | | Block No. 3, Vattamalai. | 510 | .. | .. | .. | 510 | .. | .... | |
| | | Block No. 4, Mangalapattikaradu. | 152 | .. | .. | .. | 152 | .. | .... | |
| | | Block No. 6, Malayandikuttu. | 157 | .. | .. | .. | 157 | .. | .... | |
| | | Nedumalai .. .. | .. | .. | 1,069 | .. | 1,069 | .. | No. 450 of 13th August 1895. | |
| | | Karumalai .. .. | .. | .. | 1,896 | .. | 1,896 | .. | No. 90 of 22nd Feb. 1896. | |
| | | Total .. | 346,885 | 542 | 11,001 | .. | 357,886 | 559 | .... | |
| North Coimbatore. | Satyamangalam. | Gairmalam .. .. | 520 | .. | .. | .. | 520 | .. | .... | |
| | | Vellamundi .. .. | 12,800 | .. | .. | .. | 12,800 | .. | .... | |
| | | Gutialatur extension. | 5,760 | .. | .. | .. | 5,760 | .. | .... | |
| | Talamalai. | Nilgiri eastern slopes. | 60,800 | .. | .. | .. | 60,800 | .. | .... | |
| | | Talamalai .. .. | 121,600 | .. | .. | .. | 121,600 | .. | .... | |
| | | Do. extension .. | 3,840 | .. | .. | .. | 3,840 | .. | .... | |
| | Kollegal. | Chickialur .. .. | 53,760 | .. | .. | 100 | 53,660 | .. | .... | |
| | | Doddasampagai .. | 60,800 | .. | .. | .. | 60,800 | .. | .... | |
| | | Do. extension. | 3,200 | .. | .. | .. | 3,200 | .. | .... | |
| | Bhavani. | Burgur (North) .. | 119,680 | .. | .. | .. | 119,680 | .. | .... | |
| | | Do. (South) .. | 71,680 | .. | .. | .. | 71,680 | .. | .... | |
| | | Palamalai .. | 24,320 | .. | .. | .. | 24,320 | .. | .... | |
| | Erode .. | Dhárápuram taluk— | | | | | | | | |
| | | Sennakalpalaiyam, 2nd bit. | 102 | .. | .. | .. | 102 | .. | .... | |
| | | Sivamalai .. .. | 93 | .. | .. | .. | 93 | .. | .... | |
| | | Undarapatti, 1st bit. | 117 | .. | .. | .. | 117 | .. | .... | |
| | | Undarapatti, 2nd bit. | 148 | .. | .. | .. | 148 | .. | .... | |
| | | Settipalaiyam .. | 95 | .. | .. | .. | 95 | .. | .... | |
| | | Tattanmedu | 80 | .. | .. | .. | 80 | .. | .... | |
| | | Yethilamalai .. | 65 | .. | .. | .. | 65 | .. | .... | |
| | | Semmadaparai .. | 36 | .. | .. | .. | 36 | .. | .... | |
| | | Iyempalaiyam .. | 116 | .. | .. | .. | 116 | .. | .... | |
| | | Punjaithalaiyur .. | 58 | .. | .. | .. | 58 | .. | .... | |
| | | Ganapathipalaiyam. | 80 | .. | .. | .. | 80 | .. | .... | |
| | | Selambampalaiyam. | 164 | .. | .. | .. | 164 | .. | .... | |
| | | Kangayampalaiyam. | 177 | .. | .. | .. | 177 | .. | .... | |
| | | Akkaraipalaiyam, 1st bit. | 64 | .. | .. | .. | 64 | .. | .... | |
| | | Akkaraipalaiyam, 2nd bit. | 87 | .. | .. | .. | 87 | .. | .... | |
| | | Manakadavu .. | 323 | .. | .. | .. | 323 | .. | .... | |
| | | Nadukandamedu .. | 218 | .. | .. | .. | 218 | .. | .... | |
| | | Pullakalipalaiyam. | 66 | .. | .. | .. | 66 | .. | .... | |
| | | Kullakalipalaiyam. | 87 | .. | .. | .. | 87 | .. | .... | |
| | | Vellakovil .. .. | 55 | .. | .. | .. | 55 | .. | .... | |
| | | Ponnapuram, 1st bit. | 272 | .. | .. | .. | 272 | .. | .... | |
| | | Ponnapuram, 2nd bit. | 179 | .. | .. | .. | 179 | .. | .... | |
| | | Kannimarcovil .. | 84 | .. | .. | .. | 84 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Southern Circle*—cont. | | | | | | | | | |
| North Coimbatore —*cont.* | Erode—*cont.* | Dhárápuram taluk—*cont.* | | | | | | | | |
| | | Pudur .. .. | 70 | .. | .. | .. | 70 | .. | .... | |
| | | Attamalai .. | 646 | .. | .. | .. | 646 | .. | .... | |
| | | Manmedu .. | 183 | .. | .. | .. | 183 | .. | .... | |
| | | Ganapathy .. | 427 | .. | .. | .. | 427 | .. | .... | |
| | | Pulikalkaradu .. | 419 | .. | .. | .. | 419 | .. | .... | |
| | | Thalavaipatnam. | 407 | .. | .. | .. | 407 | .. | .... | |
| | | Sennakalpalaiyam, 1st bit. | 103 | .. | .. | .. | 103 | .. | .... | |
| | | Periamanimalai.. | 963 | .. | .. | .. | 963 | .. | .... | |
| | | Punakkal .. | 562 | .. | .. | .. | 562 | .. | .... | |
| | | Manjampatti .. | 203 | .. | .. | .. | 203 | .. | .... | |
| | | Pulamvalasu .. | 170 | .. | .. | .. | 170 | .. | .... | |
| | | Uthiyur .. .. | 1,024 | .. | .. | .. | 1,024 | .. | .... | |
| | | Karur taluk— | | | | | | | .... | |
| | | Thalaithupatti .. | 59 | .. | .. | .. | 59 | .. | | |
| | | Punjaikalkurichi .. | 81 | .. | .. | .. | 81 | .. | .... | |
| | | Manganur .. .. | 212 | .. | .. | .. | 212 | .. | .... | |
| | | Komarapalaiyam .. | 112 | .. | .. | .. | 112 | .. | .... | |
| | | Kakkavadi Pichampatti. | 179 | .. | .. | .. | 179 | .. | .... | |
| | | Tottuvady .. .. | 193 | .. | .. | .. | 193 | .. | .... | |
| | | Modukkur .. .. | 118 | .. | .. | .. | 118 | .. | .... | |
| | | Nerur .. .. | 131 | .. | .. | .. | 131 | .. | .... | |
| | | Karavalli .. .. | 65 | .. | .. | .. | 65 | .. | .... | |
| | | Thalapatti .. .. | 157 | .. | .. | .. | 157 | .. | .... | |
| | | Vandanmalai .. | 1,708 | .. | .. | .. | 1,708 | .. | .... | |
| | | Ranganmalai .. | | | | | | | | |
| | | Molaipalaiyam .. | 142 | .. | .. | .. | 142 | .. | .... | |
| | | Total .. | 549,860 | .. | .. | 100 | 549,760 | 859 | | |
| South Coimbatore. | Tunacaduvu and Pollachi. | No. I, Tunacaduvu reserve, including Tekadi leased forests. | 52,480 | .. | 49,698 | .. | *285,798 | .. | .... | There has been no actual addition to the area of reserved forests during the year. The increase shown is due to the fact that in the returns of last and previous years, the estimated areas only were entered; whereas in this year's report, the surveyed areas as computed by the survey of India isgiven. The individual areas of the first 12 reserved forests, cannot be given separately, as in the survey of India map they are lumped together in two main blocks. |
| | Pollachi .. | No. II, Punachi reserve. | 3,140 | | | | | | | |
| | Udamalpet. | No. III, Amravati reserve. | 47,360 | | | | | | | |
| | Pollachi and Udamalpet. | No. IV, Anamalai reserve. | 133,120 | | | | | | | |
| | Bolampatti and Sholakarai. | Bolampatti reserve, No. I. | | | | | | | | |
| | Bolampatti. | Bolampatti reserve, No. II. | 47,680 | .. | 2,551 | .. | 119,232 | .. | .... | |
| | | Bolampatti reserve, No. III. | | | | | | | | |
| | | Tadagam, No. IV .. | 30,720 | | | | | | | |
| | Mettupalayam. | Gopanari, No. V .. | 38,200 | | | | | | | |
| | | Kempampalayam, No. VI. | | | | | | | | |
| | | Nellithorai No. VII.. | | | | | | | | |
| | Sholakarai. | Small Sholakarai reserve, No. X. | 81 | | | | | | | |
| | Mettupalayam. | Odanthorai, No. VIII. | 5,880 | .. | 232 | .. | 6,112 | .. | .... | |
| | | Modur, No. IX .. | 3,600 | .. | 2,205 | .. | 5,805 | .. | .... | |
| | | Total .. | 362,261 | 566 | 54,686 | .. | 416,947 | 651 | | |

* Including Tekadi leased forest, 17,414·4 acres.

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Southern Circle*—cont. | | | | | | | | | |
| Nilgiris. | Mudumalai. | Benne | 11,068 | .. | .. | .. | 11,068 | .. | .... | |
| | | Gadsbrook | 230 | .. | .. | .. | 230 | .. | .... | |
| | | Cherambadi | 1,983 | .. | .. | .. | 1,983 | .. | .... | |
| | | Ammankaval | 563 | .. | .. | .. | 563 | .. | .... | |
| | | Benne reserve addition. | 123 | .. | .. | .. | 123 | .. | .... | |
| | | Kalhatti slopes | 8,983 | .. | .. | .. | 8,983 | .. | .... | |
| | Sigúr | Ebanad | 571 | .. | .. | .. | 571 | .. | .... | |
| | | Moyar | 13,580 | .. | .. | .. | 13,580 | .. | .... | |
| | | Northern Hay | 3,998 | .. | .. | .. | 3,998 | .. | .... | |
| | | Naduvattam | 3,411 | .. | .. | .. | 3,411 | .. | .... | |
| | | Avaraihulla reserve | 6,425 | .. | .. | .. | 6,425 | .. | .... | |
| | | Sigúr reserve and additions. | 49,484 | .. | .. | .. | 49,484 | .. | .... | |
| | | Kalmalai | .. | .. | 896 | .. | 896 | .. | No. 493 of 10th Sept. 1895. | |
| | | Singara reserve addition. | .. | .. | 379 | .. | 379 | .. | No. 529 of 24th Sept. 1895. | |
| | | Marliamund plantation. | 17 | .. | .. | .. | 17 | .. | .... | |
| | Ootacamund. | Aramby | 430 | .. | .. | .. | 430 | .. | .... | |
| | | Marliamund | 194 | .. | .. | .. | 194 | .. | .... | |
| | | Cairn hill | 559 | .. | .. | .. | 559 | .. | .... | |
| | | Brooklands | 177 | .. | .. | .. | 177 | .. | .... | |
| | | Lovedale | 296 | .. | .. | .. | 296 | .. | .... | |
| | | Craigmore | 299 | .. | .. | .. | 299 | .. | .... | |
| | | Dodabetta | 991 | .. | .. | .. | 991 | .. | .... | |
| | | Snowdon | 1,053 | .. | .. | .. | 1,053 | .. | .... | |
| | | Jakuntha | 373 | .. | .. | .. | 373 | .. | .... | |
| | | Muthanad | 420 | .. | .. | .. | 420 | .. | .... | |
| | | Governor's shola | 2,671 | .. | .. | .. | 2,671 | .. | .... | |
| | | Pykara | 1,309 | .. | .. | .. | 1,309 | .. | .... | |
| | | Sandynullah | 818 | .. | .. | .. | 818 | .. | .... | |
| | | Kengodu | 451 | .. | .. | .. | 451 | .. | .... | |
| | | Karpakam | 391 | .. | .. | .. | 391 | .. | .... | |
| | | Naduvattam slopes | 1,501 | .. | .. | .. | 1,501 | .. | .... | |
| | | Vellingiri | 643 | .. | .. | .. | 643 | .. | .... | |
| | | Kadcoopa | 1,622 | .. | .. | .. | 1,622 | .. | .... | |
| | | Mukurti | 8,953 | .. | .. | .. | 8,953 | .. | .... | |
| | | Kundahs | 40,379 | .. | .. | .. | 40,379 | .. | .... | |
| | | Mikkeru | 1,267 | .. | .. | .. | 1,267 | .. | .... | |
| | | Thia shola | 1,551 | .. | .. | .. | 1,551 | .. | .... | |
| | | Hiria shige | 2,175 | .. | .. | .. | 2,175 | .. | .... | |
| | | Devamalai | 229 | .. | .. | .. | 229 | .. | .... | |
| | | Honnathalai | 320 | .. | .. | .. | 320 | .. | .... | |
| | | Fern hill shola | 10 | .. | .. | .. | 10 | .. | .... | |
| | | Addition to Fairlawns No. I. | 22 | .. | .. | .. | 22 | .. | .... | |
| | | Addition to Dodabetta No. II. | 13 | .. | .. | .. | 13 | .. | .... | |
| | | Addition to Doddahulla. | 10 | .. | .. | .. | 10 | .. | .... | |
| | | Bilikal road | 25 | .. | .. | .. | 25 | .. | .... | |
| | | Red hills | 48 | .. | .. | .. | 48 | .. | .... | |
| | | Bigulihulla | 46 | .. | .. | .. | 46 | .. | .... | |
| | | Yedakad | 117 | .. | .. | .. | 117 | .. | .... | |
| | | Keradamund | 276 | .. | .. | .. | 276 | .. | .... | |
| | | Nanjanad and three additions. | 915 | .. | .. | .. | 915 | .. | .... | |
| | | Hiria shige | 851 | .. | .. | .. | 851 | .. | .... | |
| | | Porthimund reserve | 6,983 | .. | .. | .. | 6,983 | .. | .... | |
| | | Kundah reserve addition No. I. / Kundah reserve addition No. III. / Kundah reserve addition No. IV. | 2,126 | .. | .. | .. | 2,126 | .. | .... | |
| | | Kunnur reserve | 14 | .. | .. | .. | 14 | .. | .... | |
| | | Kengal reserve | 14 | .. | .. | .. | 14 | .. | .... | |
| | | Bikkepathimund reserve. | 1,945 | .. | .. | .. | 2,945 | .. | .... | |
| | | Ebbanad reserve addition. | 222 | .. | .. | 3 | 219 | .. | .... | |
| | | Belle vue I and II and portion of Caritt shola. | .. | .. | .. | 110 | — 110 | .. | No. 807 of 12th Dec. 1895. | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Southern Circle*—cont. | | | | | | | | | |
| Nilgiris —*cont.* | Coonoor. | Hulikal | 6,411 | .. | .. | .. | 6,411 | .. | .... | |
| | | Ralliah | 189 | .. | .. | .. | 189 | .. | .... | |
| | | Black bridge | 390 | .. | .. | .. | 390 | .. | .... | |
| | | Coonoor peak | 540 | .. | .. | .. | 540 | .. | .... | |
| | | Lambs rock | 708 | .. | .. | .. | 708 | .. | .... | |
| | | Tiger hill | 328 | .. | .. | .. | 328 | .. | .... | |
| | | Ghat reserve | 309 | .. | .. | .. | 309 | .. | .... | |
| | | Hill grove | 187 | .. | .. | .. | 187 | .. | .... | |
| | | Kullar | 1,815 | .. | .. | .. | 1,815 | .. | .... | |
| | | Kotagiri | 563 | .. | .. | .. | 563 | .. | .... | |
| | | Ithalar | 460 | .. | .. | .. | 460 | .. | .... | |
| | | Devashola | 215 | .. | .. | .. | 215 | .. | .... | |
| | | Balakola | 935 | .. | .. | .. | 935 | .. | .... | |
| | | Athigaratti | 34 | .. | .. | .. | 34 | .. | .... | |
| | | Sutton shola | 52 | .. | .. | .. | 52 | .. | .... | |
| | | Commandu | 993 | .. | .. | .. | 993 | .. | .... | |
| | | Pembroke | 122 | .. | .. | .. | 122 | .. | .... | |
| | | Nadukaduhalla | 885 | .. | .. | .. | 885 | .. | .... | |
| | | Bellumund south | 137 | .. | .. | .. | 137 | .. | .... | |
| | | Little Ralliah | 29 | .. | .. | .. | 29 | .. | .... | |
| | | Rallia shola | 30 | .. | .. | .. | 30 | .. | .... | |
| | | Halakarai | 172 | .. | .. | .. | 172 | .. | .... | |
| | | Billithittu | 35 | .. | .. | .. | 35 | .. | .... | |
| | | Dolphin | 65 | .. | .. | .. | 65 | .. | .... | |
| | | Guernsey | 14 | .. | .. | .. | 14 | .. | .... | |
| | | Kadamalai | 15 | .. | .. | .. | 15 | .. | .... | |
| | | St. Catherines fall | 124 | .. | .. | .. | 124 | .. | .... | |
| | | Constantia | 35 | .. | .. | .. | 35 | .. | .... | |
| | | Tattapolliem | 54 | .. | .. | .. | 54 | .. | .... | |
| | | Gudakalhulla | 299 | .. | .. | .. | 299 | .. | .... | |
| | | Battu Nos. 1 and 2 | 29 | .. | .. | .. | 29 | .. | .... | |
| | | Kunnavara addition | 98 | .. | .. | .. | 98 | .. | .... | |
| | | Kannavatti | 16 | .. | .. | .. | 16 | .. | .... | |
| | | Deepdale | 361 | .. | .. | .. | 361 | .. | .... | |
| | | Gudakal | 600 | .. | .. | .. | 600 | .. | .... | |
| | | Clyffe | 33 | .. | .. | .. | 33 | .. | .... | |
| | | Dodabetta | 105 | .. | .. | .. | 105 | .. | .... | |
| | | Sham rock | 43 | .. | .. | .. | 43 | .. | .... | |
| | | Bikihetti | 19 | .. | .. | .. | 19 | .. | .... | |
| | | Ittakal Nos. 1 and 2 | 21 | .. | .. | .. | 21 | .. | .... | |
| | | Mavada | 211 | .. | .. | .. | 211 | .. | .... | |
| | | Kuttada Nos. 1 and 2. | 29 | .. | .. | .. | 29 | .. | .... | |
| | | Sundatti | 124 | .. | .. | .. | 124 | .. | .... | |
| | | Kun shola | 159 | .. | .. | .. | 159 | .. | .... | |
| | | Kirkana Nos. 1 and 2. | 24 | .. | .. | .. | 24 | .. | .... | |
| | | Kilatti | 17 | .. | .. | .. | 17 | .. | .... | |
| | | Hadiemund | 48 | .. | .. | .. | 48 | .. | .... | |
| | | Uppatti | 53 | .. | .. | .. | 53 | .. | .... | |
| | | Doddakava | 62 | .. | .. | .. | 62 | .. | .... | |
| | | Ullavanadamund shola. | 57 | .. | .. | .. | 57 | .. | .... | |
| | | Sinnattu shola | 51 | .. | .. | .. | 51 | .. | .... | |
| | | Longwood reserve addition No. I. | 31 | .. | .. | .. | 31 | .. | .... | |
| | | Kullar additions Nos. 1 and 2. | 72 | .. | .. | .. | 72 | .. | .... | |
| | | Benhope No. 2 | 34 | .. | .. | .. | 34 | .. | .... | |
| | | Kallur | 388 | .. | .. | .. | 388 | .. | .... | |
| | | Honnathalai south | 214 | .. | .. | .. | 214 | .. | .... | |
| | | Rallia | 382 | .. | .. | .. | 382 | .. | .... | |
| | | Teppakuchi | 115 | .. | .. | .. | 115 | .. | .... | |
| | | Naduhatti | 476 | .. | .. | .. | 476 | .. | .... | |
| | | Yercuadhulia | 18 | .. | .. | .. | 18 | .. | .... | |
| | | Konakarai slopes | 1,864 | .. | .. | .. | 1,864 | .. | .... | |
| | | Vagapanai | 2,648 | .. | .. | .. | 2,648 | .. | .... | |
| | | Denad | 2,073 | .. | .. | .. | 2,073 | .. | .... | |
| | | Madanad | 723 | .. | .. | .. | 723 | .. | .... | |
| | | Kodanad valley | 294 | .. | .. | .. | 294 | .. | .... | |
| | | Nidugula | 89 | .. | .. | .. | 89 | .. | .... | |
| | | Longwood addition No. II. | 31 | .. | .. | .. | 31 | .. | .... | |
| | | Jakkanari slopes | 6,419 | .. | .. | .. | 6,419 | .. | .... | |
| | | Pakasuramalai | 625 | .. | .. | 35 cents. | 625 | .. | No. 565 of 23rd Oct. 1895. | |
| | | Pillur shola | 39 | .. | .. | .. | 39 | .. | .... | |
| | | Kulear | 226 | .. | .. | .. | 226 | .. | .... | |
| | | Sutton shola addition. | 38 | .. | .. | .. | 38 | .. | .... | |

## Area of reserved forests, 1895–96—*cont.*

| District. | Range. | Name of forest. | Area on 1st July 1895. Acres. | Area on 1st July 1895. Equivalent in square miles. | Added during the year. Acres. | Excluded. Acres. | Area on 30th June 1896. Acres. | Area on 30th June 1896. Equivalent in square miles. | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *Southern Circle*—cont. | | | | | | | | |
| Nilgiris —*cont.* | Coonoor—*cont.* | Thaimalai shola .. | 50 | .. | .. | .. | 50 | .. | .... | |
| | | Tudur shola .. .. | 24 | .. | .. | .. | 24 | .. | .... | |
| | | Ostatti .. .. | 152 | .. | .. | .. | 152 | .. | .... | |
| | | Ralliah reserve addition. | 3 | .. | .. | .. | 3 | .. | .... | |
| | | Commandu reserve addition. | 32 | .. | .. | .. | 32 | .. | .... | |
| | | Teppakuchi addition . | 4 | .. | .. | .. | 4 | .. | .... | |
| | | Pillar slopes and addition. | 3,427 | .. | .. | .. | 3,427 | .. | .... | |
| | | Kolakombe .. .. | 753 | .. | .. | .. | 753 | .. | .... | |
| | | Malur slopes .. | 4,553 | .. | .. | .. | 4,553 | .. | .... | |
| | | Koderu .. .. | 21 | .. | .. | .. | 21 | .. | .... | |
| | | Ithalar reserve addition. | .. | .. | 12 | .. | 12 | .. | No. 481 of 10th Sept. 1895. | |
| | | Total .. | 227,268 | 355 | 1,287 | 113 | 228,442 | 357 | .... | |
| North Malabar. | Chedaleth. | Kuppadi .. .. | 7,337 | .. | .. | .. | 7,337 | .. | .... | |
| | | Kurchiyat .. .. | 18,054 | .. | .. | .. | 18,054 | .. | .... | |
| | | Rampur .. .. | 18,855 | .. | .. | .. | 18,855 | .. | .... | |
| | | Nulpoya .. .. | 3,613 | .. | .. | .. | 3,613 | .. | .... | |
| | | Mavanhulla .. .. | 12,577 | .. | .. | .. | 12,577 | .. | .... | |
| | Trans Beni. | Begur .. .. .. | 15,366 | .. | .. | .. | 15,366 | .. | .... | |
| | | Aduvankunnu .. | 39 | .. | .. | .. | 39 | .. | .... | |
| | Begur Padri. | Kudrakode .. .. | 20,241 | .. | .. | • 579 | 19,662 | .. | .... | |
| | | Ondangadi .. .. | 400 | .. | .. | .. | 400 | .. | .... | |
| | | Aduvankunnu (extension). | 21 | .. | .. | .. | 21 | .. | .... | |
| | | Kuruva (Padri extension). | .. | .. | 367 | .. | 367 | .. | .... | |
| | | Kallur.. .. .. | .. | .. | 2,096 | .. | 2,096 | .. | No. 58 of *Fort St. George Gazette*, dated 4th Feb. 1896. | |
| | Chedaleth. | Edathorai .. .. | .. | .. | 602 | .. | 602 | .. | No. 634 of *Fort St. George Gazette*, dated 11th Dec. 1895. | |
| | | Muthanga .. .. | .. | .. | 323 | .. | 323 | .. | No. 138 of *Fort St. George Gazette*, dated 24th Mar. 1896. | |
| | | Alathur .. .. | .. | .. | 1,250 | .. | 1,250 | .. | No. 58 of *Fort St. George Gazette*, dated 4th Feb. 1896. | |
| | | Ponkuli .. .. | .. | .. | 160 | .. | 160 | .. | No. 535 of *Fort St. George Gazette*, dated 1st Oct. 1895. | |
| | | Total .. | 96,503 | 151 | 4,798 | 579 | 100,722 | 157 | | |
| South Malabar. | Nilambur. | Amarampalem reserve. | 474 | .. | .. | .. | † 474 | .. | .... | |
| | Amarampalam. | Chathomporai reserve. | 700 | .. | .. | .. | ‡ 700 | .. | .... | |
| | | Karimpoya reserve .. | 3,955 | .. | .. | .. | † 3,955 | .. | .... | |
| | | Nellicutta reserve .. | 1,824 | .. | .. | .. | ‡ 1,824 | .. | .... | |
| | Palghat .. | Walayar reserve .. | 3,017 | .. | .. | .. | † 3,017 | .. | .... | |
| | | Chemat Nair reserve.. | 15,203 | .. | .. | .. | § 15,203 | .. | .... | |
| | | Total .. | 25,173 | .. | .. | .. | 25,173 | 39 | | |
| South Canara. | Coondapoor. | Sabladi .. .. | 208·00 | .. | .. | .. | 208·00 | .. | .... | |
| | | Kasanakatte .. .. | 262·06 | .. | .. | .. | 262·06 | .. | .... | |
| | | Harkur .. .. | 857·56 | .. | .. | .. | 857·56 | .. | .... | |
| | | Talaburane .. .. | 610·85 | .. | .. | .. | 610·85 | .. | .... | |
| | | Gundaber pare .. | 2,177·78 | .. | .. | .. | 2,177·78 | .. | .... | |
| | | Jennal ane .. .. | 657·25 | .. | .. | .. | 657·25 | .. | .... | |
| | | Korakoppada hola .. | 432·56 | .. | .. | .. | 432·56 | .. | .... | |
| | | Harmannu .. .. | 638·80 | .. | .. | .. | 638·80 | .. | .... | |
| | Udipi .. | Ajjar kadu .. .. | 160·0 | .. | .. | .. | 160·0 | .. | .... | |
| | | Pilar kan .. .. | 320·0 | .. | .. | .. | 320·0 | .. | .... | |
| | | Chinkramale .. .. | 2,560·0 | .. | .. | .. | 2,560·0 | .. | .... | |

• Disafforested *Fort St. George Gazette*, dated 12th May 1896. † Purchased outright. ‡ Leased forests. § Escheat lands.

## Area of reserved forests, 1895-96—*cont.*

| District. | Range. | Name of Forest. | Area on 1st July 1895. | | Added during the year. | Excluded. | Area on 30th June 1896. | | Number and date of notification of addition or exclusion. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| | *Southern Circle*—cont. | | | | | | | | | |
| South Canara—*cont.* | Udipi—*cont.* | Manaje kadu .. | 422·73 | .. | .. | .. | 422·73 | .. | .... | |
| | | Durga male .. .. | 1,601·24 | .. | .. | .. | 1,601·24 | .. | .... | |
| | | Andar reserve .. | 22,334·40 | .. | .. | .. | 22,334·40 | .. | .... | |
| | | Tenka hola .. .. | 2,038·74 | .. | .. | .. | 2,038·74 | .. | .... | |
| | | Chembugudde .. | 75·0 | .. | .. | .. | 75·0 | .. | .... | |
| | | Kuttyar .. .. | 25·0 | .. | .. | .. | 25·0 | .. | .... | |
| | | Poitaje Kayarpalla .. | 96·0 | .. | .. | .. | 96·0 | .. | .... | |
| | Mangalore. | Ullal Casuarina and Honne Plantation. | 57·11 | .. | .. | .. | 57·11 | .. | .... | |
| | | Tannirbhavi .. .. | 69·99 | .. | .. | .. | 69·99 | .. | .... | |
| | | Hosabettu .. .. | 376·01 | .. | .. | .. | 376·01 | .. | .... | |
| | | Todar .. .. .. | 457·75 | .. | .. | .. | 457·75 | .. | .... | |
| | | Muji male .. .. | 3,200·0 | .. | .. | .. | 3,200·0 | .. | .... | |
| | Puttur .. | Shiradi sisla .. .. | 19,200·0 | .. | .. | .. | 19,200·0 | .. | .... | |
| | | Bhagi male .. .. | 6,400·0 | .. | .. | .. | 6,400·0 | .. | .... | |
| | Kasaragod .. | Dharmastal mundaje. | 4,996·70 | .. | .. | .. | 4,996·70 | .. | .... | |
| | | Parappa .. .. | 2,560·0 | .. | .. | .. | 2,560·0 | .. | .... | |
| | | Total .. | 72,795·53 | 114 | .. | .. | 72,795·53 | 114 | .... | |

FORM

*Forest*

STATEMENT showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of the year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Northern* |
| | SQ. MLS. | | | | RS. | RS. | RS. A. P. |
| Ganjám .. | 136 | .... | .... | .. | .. | .. | .. |
| Vizagapatam. | 58 | No. 53, dated 3rd February 1896. | Antikonda .. .. .. | 11 | 320 | .. | .. |
| | | | Peddabolla .. .. .. | | | | |
| | | No. 288, dated 18th May 1895. | Vemagiri .. .. .. | 2 | .. | .. | .. |
| | | No. 25, dated 20th January 1896. | Karakakonda .. .. .. | 10 | .. | .. | .. |
| | | | Chinnakaraka .. .. .. | | | | |
| | | No. 352, dated 12th June 1895. | Madalammakonda .. .. | 5 | .. | .. | .. |
| | | | Total .. | 28 | 320 | .. | 11 7 0 |
| Gódávari .. | 521 | No. 289, Rev., dated 18th May 1895. | Ramasaram .. .. .. | 2 | .. | .. | .. |
| | | No. 183, Revenue, dated 1st April 1896. | Doramamidi .. .. .. | 10 | .. | .. | .. |
| | | | Veerabhadrapuram .. .. | 7 | .. | .. | .. |
| | | | Jaddangi .. .. .. | 9 | .. | .. | .. |
| | | | Annavaram .. .. .. | 13 | .. | .. | .. |
| | | | Pedagurangi .. .. .. | 6 | .. | .. | .. |
| | | | Lingampárti .. .. .. | 10 | .. | .. | .. |
| | | | Lakkonda .. .. .. | 20 | .. | .. | .. |
| | | No. 66, Rev., dated 10th Feb. 1896. | Dewancheruvu .. .. .. | 3 | .. | .. | .. |
| | | No. 40, Rev., dated 28th January 1896. | Walsugri .. .. .. | 10 | .. | .. | .. |
| | | No. 812, Rev., dated 16th December 1895. | Nallacherla .. .. .. | 13 | .. | .. | .. |
| | | No. 178, Rev., dated 27th April 1896. | Rekapalli hills .. .. | 146 | .. | .. | .. |
| | | | Total .. | 249 | .. | .. | .. |
| Kistna | 643 | No. 218, dated 28th May 1896. | Gannavaram .. . .. | 3 | | .. | .. |
| | | No. 233, dated 4th June 1896. | Dachepalli .. .. .. | 1 | .. | .. | .. |

* Represents expenditure of the Forest-Settle
† Excludes 21 blocks of about 20 square miles

No. 45.

*Department.*

incurred on, Forest Settlements during 1895–96.

| Areas undergoing settlement. | | | | | | |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | Remarks. |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle.* | | | | | | |
| | | | | Rs. | Rs. | |
| Kaliamba .. .. .. | 8 | Kuddapada .. .. .. | 6 | * 8,286 | .. | |
| Teliki .. .. .. .. | 24 | .... | .. | .. | .. | |
| Baiballi .. .. .. .. | 34 | .... | .. | .. | .. | |
| Darpangia .. .. .. | 25 | .... | .. | .. | .. | |
| Gullery .. .. .. .. | 37 | .... | .. | .. | .. | |
| Ambozora .. .. .. | 50 | .... | .. | .. | .. | |
| Chodiapalli .. .. .. | 1 | .... | .. | .. | .. | |
| Gundribadi and extensions .. | 34 | .... | .. | .. | .. | |
| Gogodo .. .. .. .. | 24 | .... | .. | .. | .. | |
| Paichalia .. .. .. | 22 | .... | .. | .. | .. | |
| Brahmanosai .. .. .. | 13 | .... | .. | .. | .. | |
| Kurcholi .. .. .. | 9 | .... | .. | .. | .. | |
| Kriamba .. .. .. | 36 | .... | .. | .. | .. | |
| Sandosalia .. .. .. | 3 | .... | .. | .. | .. | |
| Bodochendana .. .. .. | 1 | .... | .. | .. | .. | |
| Pangidi .. .. .. .. | 1 | .... | .. | .. | .. | |
| Rogada .. .. .. .. | 25 | .... | .. | .. | .. | |
| Dowgam .. .. .. | 4 | .... | .. | .. | .. | |
| Pippalapanka .. .. .. | 12 | .... | .. | .. | .. | |
| Mundapetta .. .. .. | 11 | .... | .. | .. | .. | |
| Hukuma .. .. .. | 7 | .... | .. | .. | .. | |
| Raipada .. .. .. | 10 | .... | .. | .. | .. | |
| Dheppaguda .. .. .. | 2 | .... | .. | .. | .. | |
| Ramagoda .. .. .. | 10 | .... | .. | .. | .. | |
| Bainamari .. .. .. | 6 | .... | .. | .. | .. | |
| South Mohiri .. .. .. | 6 | .... | .. | .. | .. | |
| Rankuhunumanthapuram .. | 2 | .... | .. | .. | .. | |
| Chatrapuram .. .. .. | 1 | .... | .. | .. | .. | |
| Podra .. .. .. .. | 1 | .... | .. | .. | .. | |
| Napier's park .. .. .. | 1 | .... | .. | .. | .. | |
| Agasti Nowgam .. .. | | | | | | |
| Total .. | † 420 | | 6 | 8,286 | .. | |
| Kadagandi .. .. .. | 15 | .... | .. | 17 | .. | |
| Dharakonda .. .. .. | 73 | .... | .. | 50 | .. | |
| Bharnakonda .. .. .. | 26 | .... | .. | .. | .. | |
| Sinnivaram .. .. .. | 49 | .... | .. | .. | .. | |
| Bointi .. .. .. .. | 51 | .... | .. | .. | .. | |
| Total .. | 214 | | | 67 | .. | |
| Tirumalayapaliem .. .. | 14 | .... | .. | | | |
| Upputeru .. .. .. | 16 | .... | .. | | | |
| Kandikuppa .. .. .. | 14 | .... | .. | | | |
| Jilugumilli .. .. .. | 5 | .... | .. | | | |
| Dharbhagudem .. .. | 3 | .... | .. | 816 | .. | |
| Marlagudem .. .. .. | 4 | .... | .. | | | |
| Beddadavole .. .. .. | 24 | .... | .. | | | |
| Kopalli .. .. .. .. | 30 | .... | .. | | | |
| Kovada .. .. .. .. | 30 | .... | .. | | | |
| Papikonda .. .. .. | 33 | .... | .. | | | |
| Total .. | 173 | | .. | 816 | .. | |
| Bandar Fort Extension No. I.. | 1 | Gudimetla .. .. .. | 2 | .. | .. | |
| Adavuladivi Extension No. I.. | .. | Janapad .. .. .. | 5 | .. | .. | |
| Do. parra .. .. | 8 | Narasayapalem extension I .. | | | | |

ment-office from November 1895 to June 1896.
abandoned during the year.

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of the year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Northern* |
| | SQ. MLS. | | | | RS. | RS. | RS. A. P. |
| Kistna—*cont.* | 643 | No. 423, dated 5th July 1895. | Boggaram .. .. .. | .. | .. | .. | .. |
| | | No. 501, dated 31st July 1895. | Bollapalli Extension No. VI .. | 1 | .. | .. | .. |
| | | No. 68, dated 11th February 1896. | Kakirala Extension No. VI .. | 8 | .. | .. | .. |
| | | No. 94, dated 3rd March 1896. | Ramudupalem .. .. .. | 1 | .. | .. | .. |
| | | No. 135, dated 20th March 1896. | Bollapalli Extension No. V .. | 1 | .. | .. | .. |
| | | No. 147, dated 30th March 1896. | Nayanipalem Block No. II .. | 2 | .. | .. | .. |
| | | No. 226, dated 2nd June 1896. | Do. do. No. I .. | | | | |
| | | No. 642, dated 23rd September 1895. | Mutukur Extension No. II .. | 1 | .. | .. | .. |
| | | No. 287, dated 12th June 1896. | Do. do. No. IV .. | 5 | .. | .. | .. |
| | | | Totol .. | 18 | .. | .. | .. |
| Kurnool .. | 1,737 | No. 743, dated 14th November 1895. | Sirvel reserve, Addition No. I. | 3 | 20 | .. | .. |
| | | No. 738, dated 14th November 1895. | Kappatralla .. .. .. | 5 | 20 | .. | .. |
| | | No. 99, dated 4th March 1896. | Karumanchi .. .. .. | 2 | 35 | .. | .. |
| | | | Total .. | 10 | 75 | .. | 7 8 0 |

ncurred on, Forest Settlements during 1895-96—*cont.*

| Areas undergoing settlement. | | | | | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | | | ACS. | RS. | RS. | |
| Amudalapalli .. .. .. | 2 | Narasayapalem Extension No. II. | | | | |
| Potumerakapara .. .. | 16 | Tummurukodu. | 3 | 543 | .. | |
| Nizampatam .. .. .. | 10 | Block No. IV. | | | | |
| Bapatla Extension No. III .. | 1 | Do. „ V. | | | | |
| Kothur do. „ I .. | 1 | Bandar Forest Extension No. II | 1 | .. | .. | |
| Gollapudi .. .. .. | 2 | .... | .. | .. | .. | |
| China Palakalur Extension No. II. | .. | .... | .. | .. | .. | |
| Kandipad .. .. .. | | | | | | |
| Takkellapad .. .. .. | 2 | .... | .. | .. | .. | |
| Krosur .. .. .. | | | | | | |
| Bollapalli Extension No. I .. | 8 | .... | .. | .. | .. | |
| Do. „ II .. | 11 | .... | .. | .. | .. | |
| Do. „ III.. | 5 | .... | .. | .. | .. | |
| Do. „ VIII. | 3 | .... | .. | .. | .. | |
| Vinukonda .. .. .. | 13 | .... | .. | .. | .. | |
| Kolalapudi .. .. .. | | | | | | |
| Putsanutula .. .. .. | 1 | .... | .. | .. | .. | |
| Yellamanda .. .. .. | 2 | .... | .. | .. | .. | |
| Narsayapalem .. .. .. | 3 | .... | .. | .. | .. | |
| Yelchur .. .. .. | | | | | | |
| Nagarazupalli .. .. .. | 1 | .... | .. | .. | .. | |
| Guttikonda Extension No. I.. | 2 | .... | .. | .. | .. | |
| Do. „ II. | | | | | | |
| Andugulapad .. .. .. | 4 | .... | .. | .. | .. | |
| Ainavolu .. .. .. | | | | | | |
| Guttikonda Extension No. VI. | 5 | .... | .. | .. | .. | |
| Do. „ VII. | | | | | | |
| Karlakunta .. .. .. | .. | .... | .. | .. | .. | |
| Mutukur Extension No. III .. | 4 | .... | .. | .. | .. | |
| Do. „ IV .. | 5 | .... | .. | .. | .. | |
| Pasvemula Extension No. I .. | 8 | .... | .. | .. | .. | |
| Do. „ II .. | | | | | | |
| Do. „ III. | | | | | | |
| Do. „ IV. | | | | | | |
| Tummurkodu No. II .. .. | 5 | .... | .. | .. | .. | |
| Darvemula .. .. .. | 2 | .... | .. | .. | .. | |
| Atmakur .. .. .. | | | | | | |
| Kambhampad .. .. .. | | | | | | |
| Veldurti .. .. .. | 7 | .... | .. | .. | .. | |
| Total .. | 132 | | 11 | .. | .. | |
| North Dhone .. .. .. | 22 | .... | .. | 176 | .. | |
| Pendekallu .. .. .. | 4 | .... | .. | 20 | .. | |
| Katarukonda .. .. .. | 5 | .... | .. | .. | .. | |
| Gundlakonda .. .. .. | 7 | .... | .. | 20 | .. | |
| Peddapaya .. .. .. | 5 | .... | .. | .. | .. | |
| Sirvel Addition No. II. .. | 25 | .... | .. | .. | .. | |
| Do. No. III. .. | 18 | .... | .. | .. | .. | |
| Jaladurgam .. .. .. | 28 | .... | .. | .. | .. | |
| Yerrakondapalem .. .. | 16 | .... | .. | 20 | .. | |
| Tamballapalli .. .. .. | 3 | .... | .. | .. | .. | |
| Tokapalli .. .. .. | 2 | .... | .. | .. | .. | |
| Mundlapad .. .. .. | 1 | .... | .. | 60 | .. | |
| Ganapavaram .. .. .. | 23 | .... | .. | 180 | .. | |
| Millampalli .. .. .. | 6 | .... | .. | 90 | .. | |
| Kamalapuram .. .. .. | 3 | .... | .. | 90 | .. | |
| Uyyalavada addition .. .. | 33 | ... | .. | 280 | .. | |
| Velugode .. .. .. | 69 | .... | .. | .. | .. | |
| Maduva .. .. .. .. | 1 | .... | .. | .. | .. | |
| Ambavaram .. .. .. | 16 | .... | .. | 90 | .. | |
| Somidevipalli .. .. .. | 18 | .... | .. | 90 | .. | |
| Betamcherla .. .. .. | 16 | .... | .. | 96 | .. | |
| Pyalakurti .. .. .. | 1 | .... | .. | .. | .. | |
| .... | .. | Jonnagiri .. .. .. | 1 | 34 | .. | |
| Nandyal Addition No. I .. | 11 | .... | .. | .. | .. | |
| Do. „ II .. | 20 | .... | .. | .. | .. | |
| Total .. | 353 | | 1 | 1,246 | .. | |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square miles of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Northern* |
| | SQ. MLS. | | | | RS. | RS. | RS. |
| Bellary .. | 360 | No. 798, dated 5th December 1895. | Udegolam .. .. .. | 0·7 | | | |
| | | No. 107, dated 7th March 1896. | Veerapuram B .. .. .. | 5·4 | | | |
| | | Govt. Notification No. 378, dated 16th July 1895. | Mecheri .. .. .. | 2·4 | | | |
| | | No. 633, dated 16th September 1895. | Mallapuram .. .. .. | 2·4 | | | |
| | | No. 543, dated 13th August 1895. | Sulekeri .. .. .. | 2·1 | | | |
| | | No. 772, dated 27th November 1895. | Tungabhadra .. .. .. | 4 | | | |
| | | No. 567, dated 20th August 1895. | Kadimatla A and B .. .. | 3·1 | | | |
| | | No. 515, dated 6th August 1895. | Kadabur .. .. .. | 4 | | | |
| | | No. 149, dated 1st April 1896. | Belagallu .. .. .. | 1·1 | *Nil*... | .. | .. |
| | | No. 67, dated 11th February 1896. | Noulikallu A and B .. .. | 1·3 | | | |
| | | No. 557, dated 15th August 1895. | Bellekallu W. .. .. .. | 5 | | | |
| | | No. 687, dated 1st October 1895. | Gudekota .. .. .. | 11 | | | |
| | | No. 441, dated 12th July 1895. | Alagilavada Extension .. | 2·7 | | | |
| | | No. 644, dated 23rd September 1895. | Garbhagadi .. .. .. | 1·1 | | | |
| | | No. 402, dated 7th June 1895. | Almarshikeri .. .. .. | 1·7 | | | |
| | | No. 396, dated 5th June 1895. | Harivi .. .. .. | 1 | | | |
| | | | Total .. | 49 | | | |
| Anantapur .. | 380 | No. 62, dated 8th February 1896. | Kanumpalli .. .. .. | 3 | .. | .. | .. |
| | | No. 568, dated 20th August 1895. | Muchukota .. .. .. | 34 | .. | .. | .. |
| | | No. 591, dated 2nd November 1895. | Shiripi .. .. .. .. | 1 | .. | .. | .. |
| | | No. 61, dated 8th February 1896. | Gundumala .. .. .. | 8 | .. | .. | .. |
| | | No. 77, dated 15th February 1896. | Madakasira, North .. .. | ·5 | .. | .. | .. |
| | | No. 127, dated 19th March 1896. | Yerracherla .. .. .. | 2 | .. | .. | .. |
| | | No. 117, dated 16th March 1896. | Sankarakallu, South .. .. | 2 | .. | .. | .. |
| | | | Total .. | 55 | .. | .. | .. |
| | | | | | | | *Central* |
| Cuddapah .. | 1,250 | No. 269, dated 15th May 1895. | Marriutla .. .. .. | | | | |
| | | No. 304, dated 27th May 1895. | Idupulapaya .. .. .. | | | | |
| | | | Redlacheruvu .. .. .. | | | | |
| | | | Ganganapalli .. .. .. | | | | |
| | | No. 351, dated 12th June 1895. | Kottakota .. .. .. | | | | |
| | | | Dasaripalli .. .. .. | | | | |
| | | No. 390, dated 22nd June 1895. | Sorakayalupet extension .. | 285 | .. | .. | .. |
| | | No. 551, dated 13th August 1895. | Polimyarapalli .. .. .. | | | | |
| | | No. 558, dated 15th August 1895. | Yerrakonda extension .. | | | | |
| | | No. 623, dated 9th September 1895. | Hasanapuram .. .. .. | | | | |

incurred on, Forest Settlements during 1895–96—*cont.*

| Areas undergoing settlement. | | | | | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | | | | Rs. | Rs. | |
| Kosigi .. .. .. .. | 4·4 | .... | .. | .. | .. | Columns 7, 8 and 14 are not filled up as some of the Forest Settlement-officers have not yet given the required information. |
| Kuppagallu .. .. .. | 7·2 | .... | .. | .. | .. | |
| Neraniki .. .. .. | 15·9 | .... | .. | 7 | .. | |
| .... | .. | Molagavalli .. .. .. | 2 | .. | .. | |
| .... | .. | Kodalu .. .. .. .. | 2 | .. | .. | |
| .... | .. | Ubbalagandi .. .. .. | 3 | .. | .. | |
| .... | .. | Marutla .. .. .. .. | 5 | .. | .. | |
| | 27·5 | | 12 | 7 | .. | |
| Golla .. .. .. .. | 11 | Durgam Extension .. .. | 9 | 1,051 | .. | |
| Yemmihatti .. .. .. | 5 | Kalagira .. .. .. | | | | |
| Pillahalli .. .. .. | | | | | | |
| Iydukallu .. .. .. | 6 | .... | .. | | | |
| Shetturú .. .. .. | 7 | .... | .. | | | |
| Iyampalli .. .. .. | 2 | .... | .. | | | |
| Kondepalli .. .. .. | 7 | .... | .. | | | |
| Khyreva .. .. .. | 10 | .... | .. | | | |
| Narasampalli .. .. .. | 3 | .... | .. | | | |
| Ratnagiri .. .. .. | 3 | .... | .. | | | |
| Hottebetta, North .. .. | 14 | .... | .. | | | |
| Do. South .. .. | | | | | | |
| | 68 | | 9 | 1,051 | .. | |
| *Circle.* | | | | | | |
| Palakonda .. .. .. | 529 | Palakonda extensions .. .. | 132 | 2,155 | .. | Columns 6, 7, 13 and 14 are not filled in as it is not feasible to divide the amount spent on Forest Settlement "on areas finally settled" and "on areas undergoing Settlement." |
| Wongimalla .. .. .. | | Konurajupalli extension .. | | | | |
| Lankamalais extension .. | | Chitvel extension .. .. | | | | |
| Vedurur .. .. .. .. | | Kanchala morram extension .. | | | | |
| Horsleykonda extension .. | | .... | .. | | | |
| Ganugapenta extension .. | | .... | .. | | | |
| Voruvoi .. .. .. .. | | .... | .. | | | |
| Sancherla extension .. .. | | .... | .. | | | |
| Nigadi extension .. .. | | .... | .. | | | |
| Kalasapaud extension .. .. | | .... | .. | | | |
| Chennupalli .. .. .. | | .... | .. | | | |
| Tummalur extension .. .. | | .... | .. | | | |
| Yerrappakonda .. .. | | .... | .. | | | |
| Kottakota .. .. .. | | .... | .. | | | |
| Dasaripalli extensions .. .. | | .... | .. | | | |

Statement showing the Progress made in, and the Expenditure

| Name of Forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Central* |
| | SQ. MLS. | | | | RS. | RS. A. P. | RS. A. P. |
| Cuddapah—*cont.* | .. | No. 719, dated 2nd November 1895. | Reddipalli extension .. .. | .. | .. | .. | .. |
| | | No. 739, dated 14th November 1895. | Iddpulapaya Palmyra plantation. | | | | |
| | | No. 69, dated 11th February 1896. | Mudampaud slopes .. .. | | | | |
| | | No. 93, dated 3rd March 1896. | Pallavol .. .. .. | | | | |
| | | No. 92, dated 3rd March 1896. | Chapaud .. .. .. | | | | |
| | | No. 91, dated 3rd March 1896. | Kavalakuntla extension .. | | | | |
| | | | Total .. | .. | .. | .. | .. |
| Nellore .. | 417 | No. 472, dated 20th July 1895. | Kallurupad .. .. .. | 1 | .. | .. | .. |
| | | No. 586, dated 28th August 1895. | Veerapalli .. .. .. | 1 | .. | .. | .. |
| | | Do. do. | Chemededepad B .. .. | 1 | .. | .. | .. |
| | | Do. do. | Chevur .. .. .. | | | | |
| | | No. 612, dated 6th September 1895. | Karedu .. .. .. .. | 2 | .. | .. | .. |
| | | No. 604, dated 4th September 1895. | Chemededepad A .. .. | 1 | .. | .. | .. |
| | | No. 603, dated 4th September 1895. | Mocherla .. .. .. | 1½ | .. | .. | .. |
| | | No. 815, dated 16th December 1895. | Potlur .. .. .. .. | 1 | .. | .. | .. |
| | | No. 37, dated 23rd January 1896. | Gudlur, South .. .. .. | 2 | .. | .. | .. |
| | | No. 125, dated 19th March 1896. | Chagallu C .. .. .. | ½ | .. | .. | .. |
| | | No. 397, dated 25th June 1895. | Kavali extension .. .. | 2 | .. | .. | .. |
| | | No. 586, dated 28th August 1895. | Budamagunta .. .. | | | | |
| | | No. 125, dated 19th March 1896. | Bitragunta extension .. .. | 1 | .. | .. | .. |
| | | Do. do. | Narayanapuram extension .. | 5 | .. | .. | .. |
| | | No. 39, dated 23rd January 1896. | Sangam .. .. .. | | | | |
| | | No. 611, dated 6th September 1895. | Ragavalu Punugodu .. .. | | | | |
| | | | Total .. | 19 | .. | 405 14 0 | 21 5 10 |
| Chingleput.. | 197 | No. 836, dated 24th December 1895. | Acharavakam .. .. .. | 2 | .. | .. | .. |
| | | No. 841, dated 30th December 1895. | Gudalur .. .. .. | 1 | .. | .. | .. |
| | | | | 3 | | | |

incurred on, Forest Settlements during 1895-96—*cont.*

| Areas undergoing settlement. | | | | | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle.* | | | | | | |
| | | | | Rs. | Rs. A. P. | |
| Kavalakuntla extension .. | 529 | | | | | |
| Idupulapaya extension .. | | | | | | |
| Ganganapalli extension .. | | | | | | |
| Yellutla extension .. .. | | | | | | |
| Marella extension .. .. | | | | | | |
| Sangasamudram .. .. | | | | | | |
| Gandlur .. .. .. .. | | | | | | |
| Marripaud .. .. .. | | | | | | |
| Seshachalam extension .. | | | | | | |
| Kutágulla extension .. .. | | | | | | |
| Vontimitta extension .. .. | | | | | | |
| | 529 | | 132 | 2,155 | .. | |
| Veligundla .. .. .. | 1 | Chelamcherla extension .. | 9 | .. | .. | |
| Munubolupad extension .. | 1 | Duttalur .. .. .. | | | | |
| Bhimavaram .. .. .. | 1 | Repur Veligunda extension A. | 15 | .. | .. | |
| Chakicherla, North .. .. | 1 | Do. do. B. | | | | |
| Udayagiri Veligondas .. .. | 94 | Do. do. C. | | | | |
| Sriharikota proper .. .. | 40 | Veminab'i extension .. .. | 1 | .. | .. | |
| Do. minor .. .. | 6 | Pottukonda extension .. | | | | |
| Bayilacheruvalla .. .. | 1 | | | | | |
| Dubagunta Ragavolu .. .. | 6 | | | | | |
| Abbasahebpeta Gudipad Pedda Annalur. | | | | | | |
| Abbasahebpeta Gudipad, West. | 1 | | | | | |
| Yedavalli .. .. .. | 1 | | | | | |
| Anantasagaram A .. .. | 3 | | | | | |
| Do. B .. .. | 1 | | | | | |
| Peramannakondur .. .. | 1 | | | | | |
| Mahimmalur .. .. .. | 17 | | | | | |
| Gavaravaram .. .. .. | 11 | | | | | |
| | 186 | | 25 | .. | 4,608 | |
| Ugumudy extension No. V .. | 11 | Kattur extension No. III.. | 3 | .. | .. | |
| Do. do. No. VI.. | | Tandrai do. „ I.. | | | | |
| Mudiyur .. .. .. | | Kovilpidagai do. „ I.. | | | | |
| Mylapur extension No. I .. | | Nanmangalam do. „ I.. | | | | |
| Vallam extension No. III .. | | Do. do. „ II.. | | | | |
| Perumbakkam A extension No. I. | | Do. do. „ III.. | | | | |
| Thirumani extension No. I .. | | Thirumalavoyal do. „ II.. | | | | |
| Do. No. II .. | | | | | | |
| Vallam extension No. II .. | | | | | | |
| Appur extension No. IV .. | | | | | | |
| Vandalur extension No. I .. | | | | | | |
| Puliyur .. .. .. | | | | | | |
| Melamaiyur .. .. .. | | .... | .. | .. | .. | |
| Tandalam B .. .. .. | | | | | | |
| Koliyalam .. .. .. | | | | | | |
| Senkunram extension No. I .. | | | | | | |
| Alappakkam extension No. I. | | | | | | |
| Poraiyur .. .. .. | | | | | | |
| Vandalur extension No. III .. | | | | | | |
| Total .. | 11 | | 3 | .. | .. | |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Central* |
| | SQ. MLS. | | | | RS. | RS. | RS. |
| North Arcot. | 966 | No. 737, dated 14th November 1895. | Bommasamudram extension .. | 2 | .. | .. | .. |
| | | No. 132, dated 20th March 1896. | Kinatipalle extension .. | 2 | .. | .. | .. |
| | | No. 150, dated 1st April 1896. | Basavapalle extension .. | 1 | .. | .. | .. |
| | | No. 742, dated 14th November 1895. | Konjanur .. .. .. | 4 | .. | .. | .. |
| | | No. 342, dated 8th June 1895. | Kaniambady .. .. .. | 2 | .. | .. | .. |
| | | No. 556, dated 15th August 1895. | Appukal or Arasampet .. | 1 | .. | .. | .. |
| | | No. 682, dated 14th October 1895. | Karuthamalai .. .. .. | 19 | .. | .. | .. |
| | | | Total .. | 31 | .. | .. | .. |
| South Arcot. | 464 | No. 275, Rev., dated 15th May 1895. | Kannamadai .. .. .. | 7 | .. | .. | .. |
| | | No. 290, Rev., dated 18th May 1895. | Valasamalai .. .. .. | 19 | .. | .. | .. |
| | | No. 473, Rev., dated 20th July 1895. | Pumalai .. .. .. | 5 | .. | .. | .. |
| | | No. 56, Rev., dated 6th Feb. 1896. | Ravandavadi .. .. .. | 21 | .. | .. | .. |
| | | No. 41, Rev., dated 28th Jan. 1896. | Thachampattu .. .. .. | 3 | .. | .. | .. |
| | | No. 302, Rev., dated 27th May 1895. | Melsevur first bit .. .. | 1 | .. | .. | .. |
| | | No. 658, Rev., dated 1st October 1895. | Thandavasamudram .. .. | 1 | .. | .. | .. |
| | | No. 425, Rev., dated 5th July 1895. | Doni Durai, North .. .. | .. | .. | .. | .. |
| | | No. 773, Rev., dated 27th Nov. 1895. | Periyakuppam .. .. .. | 2 | .. | .. | .. |
| | | No. 419, Rev., dated 4th July 1895. | Adivarahanallore .. .. | 1 | .. | .. | .. |
| | | No. 383, Rev., dated 22nd June 1895. | Velandai .. .. .. | 1 | .. | .. | .. |
| | | No. 487, Rev., dated 24th July 1895. | Kallamedu .. .. .. | 2 | .. | .. | .. |
| | | No. 641, Rev., dated 20th Sept. 1895. | Oddampattu .. .. .. | 1 | .. | .. | .. |
| | | No. 38, Rev., dated 23rd January 1896. | Sengamedu .. .. .. | | | | |
| | | No. 26, Rev., dated 20th January 1896. | Solavandipuram .. .. | 1 | .. | .. | .. |
| | | No. 221, Rev., dated 20th April 1895. | Lachiyam .. .. .. | 1 | .. | .. | .. |
| | | No. 353, Rev., dated 12th June 1895. | Sittalur .. .. .. .. | 1 | .. | .. | .. |
| | | No. 549, Rev., dated 13th August 1895. | Indali .. .. .. .. | 2 | .. | .. | .. |
| | | No. 548, Rev., dated 13th August 1895. | Puttai .. .. .. .. | 1 | .. | .. | .. |

incurred on, Forest Settlements during 1895-96—*cont.*

| Areas undergoing settlement. | | | | | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | | | | | Rs. | |
| Reddigunta .. .. .. | 4 | Peddur extension .. .. | 15 | .. | .. | |
| Chases Hill .. .. .. | 3 | Musali madugu .. .. | 3 | 1,945 | .. | |
| Parapumalai .. .. .. | 2 | Thondapantangal .. .. | 1 | .. | .. | |
| Putramadi or Iralla .. .. | 5 | Nambedu extension .. .. | | | | |
| Penamur extension .. .. | 6 | .... | .. | .. | .. | |
| Santhapet extension .. .. | 4 | .... | .. | .. | .. | |
| Paradarami extension .. | 5 | .... | .. | .. | .. | |
| Pakala .. .. .. .. | 4 | .... | .. | .. | .. | |
| Palmaner .. .. .. | 3 | .... | .. | .. | .. | |
| Pattikonda .. .. .. | 7 | .... | .. | .. | .. | |
| Jangalapalle .. .. .. | 3 | .... | .. | .. | .. | |
| Synagunta extension .. .. | 7 | .... | .. | .. | .. | |
| Pallelacuppam extension .. | 10 | .... | .. | .. | .. | |
| Kampasamudram .. .. | 3 | .... | .. | .. | .. | |
| Gundlapalle .. .. .. | 1 | .... | .. | .. | .. | |
| Pallelacuppam extension .. | .. | .... | .. | .. | .. | |
| Bathulapalle .. .. .. | 1 | .... | .. | .. | .. | |
| Bomminaikapaliem .. .. | 1 | .... | .. | .. | .. | |
| Kallapadi .. .. .. | 10 | .... | .. | .. | .. | |
| Sanankuppam .. .. .. | 9 | .... | .. | .. | .. | |
| Solavaram extension .. .. | 1 | .... | .. | .. | .. | |
| Total .. | 89 | | 19 | 1,945 | .. | |
| Ponniar * .. .. .. | 78 | Damarakadu .. .. .. | 9 | | | |
| Pinjur .. .. .. .. | 14 | Pichavaram extension .. | 1 | | | |
| Mannurmangalam .. .. | 6 | Melkondalapadi topes .. .. | | | | |
| Eraiyurmalai .. .. .. | 9 | .... | .. | | | |
| Uchimalai .. .. .. | 5 | .... | .. | | | |
| Rayandapuram .. .. | 11 | .... | .. | | | |
| Sorakolattur .. .. .. | 12 | .... | .. | | | |
| Padipallam .. .. .. | 6 | .... | .. | | | |
| Pakkamalai .. .. .. | 23 | .... | .. | | | |
| Annamangalam .. .. | 1 | .... | .. | | | |
| Perumpugai .. .. .. | 1 | .... | .. | | | |
| Samimalai 1st bit .. .. | 6 | .... | .. | | | |
| Kunjaram .. .. .. | 8 | .... | .. | | | |
| Takarai .. .. .. .. | 24 | .... | .. | 4,525 | .. | |
| Rishivandiyam .. .. | 9 | .... | .. | | | |
| Kaduvanur .. .. .. | 8 | .... | .. | | | |
| Aviriyur .. .. .. | 8 | .... | .. | | | |
| Odanyanachi .. .. .. | 1 | .... | .. | | | |
| Ravathanallore .. .. | 2 | .... | .. | | | |
| Marur .. .. .. .. | 2 | .... | .. | | | |
| Melpalunkur .. .. .. | 7 | .... | .. | | | |
| Settiyandal .. .. .. | 1 | .... | .. | | | |
| Tachur .. .. .. .. | 3 | .... | .. | | | |
| Pusapadi .. .. .. | 3 | .... | .. | | | |
| Thottapadi .. .. .. | 3 | .... | .. | | | |
| Kammapuram .. .. .. | 3 | .... | .. | | | |
| Total .. | 254 | Total .. | 10 | 4,525 | .. | |

* All blocks, the initial notifications of which are to be cancelled, are removed from this list.

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Central* |
| South Arcot —*cont.* | SQ. MLS. 464 | No. 691, Rev., dated 22nd October 1895. | Varanjaram .. .. .. | 1 | RS. .. | RS. .. | RS. A. P. .. |
| | | No. 741, Rev., dated 14th Nov. 1895. | Alattur .. .. .. .. | 1 | .. | .. | .. |
| | | No. 825, Rev., dated 19th Dec. 1895. | Magarur .. .. .. | 2 | .. | .. | .. |
| | | No. 80, Rev., dated 18th Feb. 1896. | Parikam .. .. .. | 1 | .. | .. | .. |
| | | No. 100, Rev., dated 4th March 1896. | Sittal .. .. .. .. | 3 | .. | .. | .. |
| | | No. 140, Rev., dated 23rd March 1896. | Kuttakudi .. .. .. | 2 | .. | .. | .. |
| | | No. 610, Rev., dated 5th Sept. 1895. | Semakottai block extension .. | 1 | .. | .. | .. |
| | | No. 746, Rev., dated 15th Nov. 1895. | Parur block extension .. | | | | |
| | | No. 771, Rev., dated 27th Nov. 1895. | Narimanam .. .. .. | 2 | .. | .. | .. |
| | | No. 131, Rev., dated 20th March 1896. | Velangulam .. .. .. | 2 | .. | .. | .. |
| | | | Total .. | 85 | .. | .. | .. |
| | | No. 128, dated 19th March 1896. | Harur .. .. .. .. | 3 | .. | .. | .. |
| | | No. 139, dated 23rd March 1896. | Medugampalli, 2nd part .. | | | | |
| Salem .. | 1,089 | No. 218, dated 18th April 1895. | Elavambadi .. .. .. | 6 | .. | .. | .. |
| | | No. 317, dated 28th May 1895. | Kavuramalai extension .. | 5 | .. | .. | .. |
| | | No. 500, dated 31st July 1895. | Maharajagadai .. .. .. | 11 | .. | .. | .. |
| | | No. 577, dated 23rd August 1895. | Bonthical .. .. .. | 1 | .. | .. | .. |
| | | No. 579, dated 23rd August 1895. | Vellakuttai .. .. .. | 2 | .. | .. | .. |
| | | No. 578, dated 23rd August 1895. | Puvampatti extension .. | 2 | .. | .. | .. |
| | | No. 606, dated 5th September 1895. | Mangalakkal .. .. .. | 1 | .. | .. | .. |
| | | No. 602, dated 4th September 1895. | Mukkanur .. .. .. | 3 | .. | 1,945 | .. |
| | | No. 598, dated 2nd October 1895. | Parappadipatti .. .. .. | .. | .. | .. | .. |
| | | No. 607, dated 5th September 1895. | Bothakadu .. .. .. | 5 | .. | .. | .. |
| | | No. 787, dated 22nd December 1895. | Manur .. .. .. .. | 15 | .. | .. | .. |
| | | No. 840, dated 30th December 1895. | Jadayagounden slopes .. | 19 | .. | .. | .. |
| | | No. 814, dated 16th December 1895. | Alambadi .. .. .. | 1 | .. | .. | .. |
| | | No. 813, dated 16th December 1895. | Pelapalli extension .. .. | 1 | .. | .. | .. |
| | | No. 826, dated 19th December 1895. | Patthimedu .. .. .. | 18 | .. | .. | .. |
| | | | Nagalur .. .. .. | | | | |
| | | | Thumbal .. .. .. | | | | |
| | | No. 24, dated 20th January 1896. | Kuttar extension .. .. | 2 | .. | .. | .. |
| | | No. 133, dated 20th March 1896. | Thumbal do. .. .. | 3 | .. | .. | .. |
| | | | Total .. | 98 | .. | 1,945 | 19 13 4 |
| Trichinopoly, | 192 | .... | .... | .. | .. | .. | .. |
| Tanjore .. | 19 | .... | .... | .. | .. | .. | .. |
| South Canara. | 114 | .... | .... | .. | .. | .. | .. |

incurred on, Forest Settlements during 1895–96—*cont.*

| Areas undergoing settlement. | | | | Expenditure incurred during the year on areas undergoing settlement. | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | | | |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | Rs. | Rs. | |
| .... | .. | .... | .. | .. | .. | |
| Kombur .. .. | 4 | Kappathu extension .. .. | 8 | .. | .. | |
| Bathamala extension .. .. | 3 | Kachuvadi .. .. .. | | | | |
| Alavamalai do. .. .. | 7 | Sengadu .. .. .. | 2 | .. | .. | |
| Munnakal .. .. .. | 2 | Shelur .. .. .. .. | 28 | .. | .. | |
| Odiathur, West .. .. | 3 | Jambuthu extension .. .. | 1 | .. | .. | |
| Mavar .. .. .. .. | 3 | Ubbarani .. .. .. | 19 | .. | .. | |
| Pattimedu extension .. .. | 3 | Poongulam south-west .. | 2 | .. | .. | |
| Onnakarai .. .. .. | 6 | Kachuvadi extension .. .. | | | | |
| Parunthukal .. .. .. | 2 | Nochiguddai .. .. .. | 4 | .. | .. | |
| Morapur .. .. .. | 9 | Vedampatti .. .. .. | 2 | .. | .. | |
| Oblinaikenpatti .. .. | 3 | Ponnagarapatti .. .. | 6 | .. | .. | |
| Uuttangarai .. .. .. | 5 | Poongulam western extension. | 2 | .. | .. | |
| Kottipalli .. .. .. | 5 | Vellalagundam .. .. | 5 | .. | .. | |
| Thagarapalli extension .. | 1 | Poyyapatti .. .. .. | 5 | .. | .. | |
| Papinaickenhalli .. .. | 5 | Andiappanur extension .. | 1 | .. | .. | |
| Periapatti .. .. .. | 5 | .... | .. | .. | .. | |
| Kalladipatti .. .. | 4 | .... | .. | .. | .. | |
| Vathampatti .. .. .. | 2 | .... | .. | .. | .. | |
| | 72 | Total .. | 85 | .. | .. | |
| Valayur .. .. .. .. | 2 | .... | .. | .. | .. | |
| .... | .. | .... | .. | .. | .. | |
| Herur .. .. .. .. | 4 | Balimane .. .. .. | 20 | .. | .. | |
| Hulimishipare .. .. | 3 | Baregundi .. .. .. | 13 | .. | .. | |
| Darlegudde .. .. .. | 1 | Baindur .. .. .. .. | 10 | .. | .. | |
| Menasinagude .. .. .. | | Mavinaguli .. .. .. | 2 | .. | .. | |
| Hullumurdi bare .. .. | 16 | Dottinabern .. .. .. | 1 | .. | .. | |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order, according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Southern* |
| | SQ. MLS. | | | | RS. | RS. | RS. A. P. |
| South Canara —*cont.* | 114 | .... | .... | .. | .. | .. | .. |
| North Malabar. | 151 | No. 42, dated 28th Jan. 1896. | Kallur .. .. .. .. | 4 | (a) 26 4 0 | Not known. | 3 12 0 |
| | | No. 786, dated 2nd Dec. 1895. | Edathorai .. .. .. | | | | |
| | | No. 130, dated 20th Mar. 1896. | Muthanga .. .. .. | 3 | | | |
| | | No. 42, dated 28th Jan. 1896. | Alathur .. .. . .. | | | | |
| | | No. 640, dated 20th Sept. 1895. | Ponkuli .. .. .. .. | | | | |
| South Malabar. | 39 | .... | .... | .. | .. | .. | .. |

(a) This includes cost of preparing and

incurred on, Forest Settlements during 1895–96—*cont.*

| Areas undergoing settlement. | | | | | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle.* | | | | | | |
| Guruvanakotehola .. .. | 12 | Someshwar .. .. .. | 37 | Rs. .. | Rs. .. | |
| Halakihola .. .. .. | | New Someshwar .. .. | 4 | .. | .. | |
| Balkattehola .. .. .. | | Mavinakodlu .. .. .. | 3 | .. | .. | |
| Abbigudde .. .. .. | | Aletti .. .. .. .. | 25 | .. | .. | |
| Mudaregudde .. .. .. | | .... | .. | .. | .. | |
| Honnekodlu .. .. .. | | .... | .. | .. | .. | |
| Vadanaberuhola .. .. | | .... | .. | .. | .. | |
| Jarkalane .. .. .. | | .... | .. | .. | .. | |
| Surtihola .. .. .. | | .... | .. | .. | .. | |
| Hulikuppanaane .. .. | | .... | .. | .. | .. | |
| Suraladvi .. .. .. | | .... | .. | .. | .. | |
| Mudugalpare .. .. .. | 12 | .... | .. | .. | .. | |
| Nujina ane .. .. .. | 1 | .... | .. | .. | .. | |
| Naganakalbare .. .. | 10 | .... | .. | .. | .. | |
| Kamradihola .. .. .. | | .... | .. | .. | .. | |
| Mettakallugudde .. .. | 9 | .... | .. | .. | .. | |
| Karakamadi .. .. .. | 2 | .... | .. | .. | .. | |
| Nerlamanekanu .. .. | 4 | .... | .. | .. | .. | |
| Sampekere .. .. .. | | .... | .. | .. | .. | |
| Chittur .. .. .. .. | | .... | .. | .. | .. | |
| Kadike .. .. .. .. | 17 | .... | .. | .. | .. | |
| Karnigadde .. .. .. | | .... | .. | .. | .. | |
| Sarpanamane .. .. .. | | .... | .. | .. | .. | |
| Doddinamane .. .. .. | 5 | .... | .. | .. | .. | |
| Murukodihola .. .. .. | 2 | .... | .. | .. | .. | |
| Bakudihola .. .. .. | 2 | .... | .. | .. | .. | |
| Madibare .. .. .. | 30 | .... | .. | .. | .. | |
| Koratikalbare .. .. .. | 10 | .... | .. | .. | .. | |
| Megani valley .. .. .. | 28 | .... | .. | .. | .. | |
| Kursegudde .. .. .. | 5 | .... | .. | .. | .. | |
| Tombattu .. .. .. | 20 | .... | .. | .. | .. | |
| Surikodlu .. .. .. | 6 | .... | .. | .. | .. | |
| Jarvattukadu .. .. .. | 1 | .... | .. | .. | .. | |
| Metkalgudde .. .. .. | | .... | .. | .. | .. | |
| Halisomeshwar .. .. | 3 | .... | .. | .. | .. | |
| Jattakattumale .. .. | 2 | .... | .. | .. | .. | |
| Naravi .. .. .. .. | 101 | .... | .. | .. | .. | |
| Charmadi Kanapadi .. .. | 20 | .... | .. | .. | .. | |
| Dodderi .. .. .. .. | 2 | .... | .. | .. | .. | |
| Total .. | 318 | | 115 | .. | .. | |
| Padri .. .. .. .. | 47 | .... | .. | *Nil* .. | Not known. | |
| Periya .. .. .. .. | 21 | .... | .. | | | |
| Kannoth .. .. .. | 40 | .... | .. | | | |
| | | Wood stock .. .. .. | .. | | | |
| Kannoth extension .. .. | 2 | .... | .. | | | |
| Periya extension .. .. | 2 | .... | .. | | | |
| Total .. | 112 | | .. | .. | .. | |
| *Nilambur Range.* | | | | | | |
| Nilambur block .. .. | | .... | .. | .. | .. | |
| Pokote .. .. .. .. | | .... | .. | .. | .. | |
| Panangod .. .. .. | | .... | .. | .. | .. | |
| Valluasseri .. .. .. | | .... | .. | .. | .. | |
| Kanakut .. .. .. | | .... | .. | .. | .. | |
| Erambadam .. .. .. | | .... | .. | 58 | .. | |
| Ambalakandi .. .. .. | | .... | .. | .. | .. | |
| Arimbracuttamala .. .. | | .... | .. | .. | .. | |
| Mangalasseri paramba .. | 169 | .... | .. | .. | .. | |
| Puthalatha and chitharikal paramba. | | .... | .. | .. | .. | |
| Beypore tope .. .. .. | | .... | .. | .. | .. | |
| *Amarampalem Range.* | | | | | | |
| Muriat .. .. .. .. | | .... | .. | .. | .. | |
| Karien .. .. .. .. | | .... | .. | .. | .. | |
| The new Amarampalam forest. | | .... | .. | .. | .. | |

putting up of sign boards.

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Southern* |
| South Malabar—*cont.* | SQ. MLS. 39 | | | | RS. | RS. | RS. |
| Total .. | 39 | | | .. | .. | .. | .. |
| Nilgiris .. | 355 | No. 493, dated 10th Sept. 1895. | Kalmalai .. .. .. | 2 | * 139 | .. | .. |
| | | No. 481, dated 10th Sept. 1895. | Ithalar reserve addition .. | | | | |
| | | No. 529, dated 24th Sept. 1895. | Singara reserve addition .. | | | | |
| North Coimbatore. | .. | *Nil.* | .... | .. | .. | .. | .. |

incurred on, Forest Settlements during 1895-96—*cont.*

| Areas undergoing settlement. | | | | | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area in square miles | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | Rs. | Rs. | |
| *Palghat Range.* | | | | | | |
| Thampurattipotta *alias* cheripallam. | 1 | | | | | |
| Dhoni *alias* Pilakatampallipparamba. | | | | | | |
| Puliampally topo .. .. | | | | | | |
| *Attapady Valley.* | | | | | | |
| Block No. I .. .. | | | | | | |
| Do. „ II .. .. | | | | | | |
| Do. „ III .. .. | 91 | .... | .. | .. | .. | |
| Do. „ IV .. .. | | | | | | |
| Total .. | 260 | .... | .. | 58 | .. | |
| Bikkal .. .. .. .. | | | | | | |
| Kallakorai .. .. .. | | | | | | |
| Karialorai .. .. .. | | | | | | |
| Nirkul .. .. .. .. | | | | | | |
| Araiyatti .. .. .. | | | | | | |
| Vemmandu .. .. .. | | | | | | |
| Attuboil .. .. .. .. | | | | | | |
| Valibettu .. .. .. | | | | | | |
| Turaiyalla .. .. .. | | | | | | |
| Belthal .. .. .. .. | | | | | | |
| Gundada .. .. .. | | | | | | |
| Bulhattihulla .. .. .. | | | | | | |
| Hakku .. .. .. .. | | | | | | |
| Kottu .. .. .. .. | | | | | | |
| Devashola addition .. .. | | | | | | |
| Umarikandi .. .. .. | 1 | Nirburra .. .. .. | .. | .. | .. | |
| Ulimokkai .. .. .. | | | | | | |
| Pattakarai .. .. .. | | | | | | |
| Osatti addition No. I .. | | | | | | |
| Do. „ II .. | | | | | | |
| Neyyatti .. .. .. .. | | | | | | |
| Bear hill .. .. .. | | | | | | |
| Edaiyatti .. .. .. | | | | | | |
| Kateri .. .. .. .. | | | | | | |
| Palukkarai .. .. .. | | | | | | |
| Bellimara .. .. .. | | | | | | |
| Welbeek No. I .. .. | | | | | | |
| Do. „ II .. .. | | | | | | |
| Do. „ III .. .. | | | | | | |
| Kudikadu .. .. .. | | | | | | |
| Upper Karteri .. .. .. | | | | | | |
| Pillimalaikorai .. .. | | | | | | |
| Gundorai .. .. .. | | | | | | |
| Guttialattur .. .. .. | 280 | .... | .. | .. | .. | |
| Yedaralli .. .. .. | 212 | .... | .. | .. | .. | |
| Ponnachi .. .. .. | 246 | .... | .. | .. | .. | |
| Hanur .. .. .. .. | 34 | .... | .. | .. | .. | |
| Sullipalayam .. .. .. | 1 | .... | .. | .. | .. | |
| Voipadi .. .. .. | 1 | .... | .. | .. | .. | |
| Thambikalayan .. .. | | | | | | |
| Ellapalayam .. .. .. | 1 | .... | .. | .. | .. | |
| Villikaradu .. .. .. | | | | | | |
| Virumandampalayam .. .. | 2 | .... | .. | .. | .. | |
| Arachalur Hill .. .. .. | 2 | .... | .. | .. | .. | |
| Kongampalayam .. .. | 1 | .... | .. | .. | .. | |
| Sennimalai .. .. .. | 3 | .... | .. | .. | .. | |
| Pandiyampalayam .. .. | 2 | .... | .. | .. | .. | |
| Sinnavirasanjili .. .. | 2 | .... | .. | .. | .. | |
| Arachalur .. .. .. | 2 | .... | .. | .. | .. | |
| Total .. | 789 | | .. | .. | .. | |

* This has been expended this year on account of the settlement of Sigur and Hiria Shego addition during 1894-95.

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area in square miles. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Southern* |
| | SQ. MLS. | | | | RS. | RS. | RS. A. P. |
| South Coimbatore. | 651 | .... | .... | .. | | .. | .. |
| | 539 | No. 354, dated 12th June 1895. | (*a*) Kuchukaradu .. .. | 3 | | .. | .. |
| | | No. 550, dated 13th August 1895. | Nedumalai .. .. .. | | | .. | .. |
| | | No. 70, dated 12th February 1896. | Perumalmalai shola .. .. | | | .. | .. |
| | | Do. do. | Gundar .. .. .. .. | | | .. | .. |
| | | Do. do. | Manavartan kanal .. .. | | | .. | .. |
| | | Do. do. | Kundukadu kanal .. .. | | | .. | .. |
| | | Do. do. | Tulkadu kanal .. .. .. | | | .. | .. |
| | | Do. do. | Kuttukalkadu kanal .. .. | | | .. | .. |
| | | No. 86, dated 22nd February 1896. | Karumalai .. .. .. | | | .. | .. |
| Madura. | | No. 78, dated 15th February 1896. | Pannitulam kanal .. .. | 8 | | .. | .. |
| | | Do. do. | Kolaviri kanal .. .. .. | | | .. | .. |
| | | Do. do. | Chendanur .. .. .. | | 2,154 | .. | .. |
| | | Do. do. | Pukadu .. .. .. .. | | | .. | .. |
| | | Do. do. | Kilanvoil .. .. .. | | | .. | .. |
| | | No. 101, dated 4th March 1896. | Glenfall's shola .. .. | | | .. | .. |
| | | Do. do. | Parappar shola .. .. | | | .. | .. |
| | | Do. do. | Nettle shola .. .. .. | | | .. | .. |
| | | Do. do. | Kalrankavai shola .. .. | | | .. | .. |
| | | Do. do. | Gundar valley .. .. .. | 6 | | .. | .. |
| | | No. 239, dated 6th June 1896. | Mungilkaradu (*b*) .. .. | 5 | | .. | .. |
| | | No. 232, dated 4th June 1896. | Sami kanal .. .. .. | | | .. | .. |
| | | No. 261, dated 13th June 1896. | Perumalmalai .. .. .. | 3 | | .. | .. |
| | | No. 258, dated 13th June 1896. | Sirumalai north-east slopes .. | | | .. | .. |
| | | | | 25 | (*c*) 2,154 | .. | 86 2 6 |
| Tinnevelly. | 411 | .... | .... | .. | .. | .. | .. |

(*a*) Settled the previous year but to take effect during the year.
(*b*) Reservation of Mungilkaradu and the following three blocks take effect from 1896-97.
(*c*) One-fifth of the total cost of Forest Settlement-officer's establishment as per statement furnished by him.

incurred on, Forest Settlement during 1895–96—*cont.*

| Areas undergoing settlement. | | | | | | Remarks. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area in square miles. | Name of tract. | Area in square miles. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle.* | | | | | | |
| | ACS. | | | RS. | RS. | |
| Elaiyamathur .. .. .. | 3 | Nellimalai .. .. .. | 3 | .. | .. | |
| Dhali .. .. .. .. | | | | | | |
| Andigoundanur .. .. | | | | | | |
| | 3 | | 3 | .. | .. | |
| Mannadimangalam * .. .. | 2 | .... | .. | .. | .. | *Excludes 5 lakhs the notifications of which have been since cancelled. |
| Kodimangalam .. .. | 5 | .... | .. | .. | .. | |
| Nellatevanpatti .. .. | 5 | .... | .. | .. | .. | |
| Kuppuvamadai .. .. .. | 2 | .... | .. | .. | .. | |
| Andipatti (south) .. .. | 10 | .... | .. | .. | .. | |
| Mulaiyar .. .. .. | 3 | .... | .. | .. | .. | |
| Tiger shola .. .. .. | 2 | .... | .. | .. | .. | |
| Anagiri shola .. .. .. | | | | | | |
| Manjampatti .. .. . | 7 | .... | .. | .. | .. | |
| Kadavumalai .. .. .. | 3 | .... | .. | .. | .. | |
| Koviladi .. .. .. | | | | | | |
| Sirnganimalai .. .. .. | | | | | | |
| Umaiyar .. .. .. | | | | | | |
| Kodavanur .. .. .. | | | | | | |
| Sirumalai north-west slopes .. | 5 | .... | .. | .. | .. | |
| Usilampattu .. .. .. | | | | | | |
| Sanamalai .. .. .. | 1 | .... | .. | .. | .. | |
| Sakkimangalam .. .. | 2 | .... | .. | .. | .. | |
| Pappanmalai .. .. .. | | | | | | |
| Erakalamalai .. .. .. | 6 | .... | .. | .. | .. | |
| Thoppásamimalai .. .. | 11 | .... | .. | .. | .. | |
| Methugamalai .. .. .. | 2 | .... | .. | .. | .. | |
| Chinnapatti Karadu .. .. | 3 | .... | .. | .. | .. | |
| Vellamalai Nedumalai .. | | | | | | |
| Nedumalai .. .. .. | 2 | .... | .. | .. | .. | |
| | 73 | | .. | .. | .. | |
| Wolf Hill .. .. .. | 2 | Manpothai .. .. .. | 2 | (*d*)2,215 | .. | |
| Thalaiyuttu block C .. .. | 1 | Melapattam .. .. .. | 2 | .. | .. | |
| Do. A. .. .. | | Gengaikondan .. .. .. | 4 | .. | .. | |
| Manur .. .. .. .. | 3 | Vaippar .. .. .. | 2 | .. | .. | |
| Mullakadu block .. .. | | Extensions to Kottamadakkikadu reserved forest Block I. | | | | |
| Block I adjoining Vallanad Hills A. | 1 | Do. Block III .. .. | 1 | .. | .. | |
| Do. II do. do. | | Do. Block IV .. .. | | | | |
| Do. III do. do. | | Do. Block V .. .. | | | | |
| | | Chintamany block .. .. | | | | |
| | 7 | | | 11 | | |

Rs. 593–6–5 was paid as compensation during the year for rights acquired in Vannathiparai reserved forest, directly under the Acquisition Act and not in the course of settlement. The block was declared reserved forest under section 25 in 1883 and this acquisition was started in 1890.

(*d*) Acquisition of lands.

## ANNUAL FORM No. 46.

*Forest Department, Madras Presidency.*

## RECORD of Demarcation and Maintenance of boundaries.

| District. | Length of boundaries artificially demarcated during the year. | Length of previously existing boundaries repaired. | Length of previously existing boundaries not repaired. | Total length of artificially marked boundaries at the close of the year. | Length of boundaries not demarcated at close of year. | Length of natural boundaries not requiring artificial marks. | Total length of boundaries at the close of the year. | Expenditure on demarcation during the year. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | On new work. | On repairs. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| *Northern Circle.* | MILES. | MILES. | MILES. | MILES. | MILES. | MILES. | MILES. | RS. | RS. |
| Ganjám .. .. .. .. | 62 | 83 | (*a*) .. | (*a*) 145 | (*a*) .. | (*a*) .. | (*a*) 145 | 856 | 234 |
| Vizagapatam .. .. .. | 152 | 99 | 226 | 477 | 386 | 19 | 882 | 780 | 100 |
| Gódávari (*b*) .. .. .. | 135 | 174 | 371 | 680 | 208 | 365 | 1,253 | 712 | 579 |
| Kistna .. .. .. .. | 346 | 23 | 1,191 | 1,560 | Not given. | | 1,560 | 3,719 | 1,111 |
| Kurnool .. .. .. .. | 203 | (*c*) 8 | 1,121 | 1,332 | 485 | 196 | (*d*) 2,013 | 826 | 27 |
| Bellary .. .. .. .. | 497 | 200 | 309 | 1,006 | 552 | .. | 1,558 | 2,533 | 486 |
| Anantapur .. .. .. .. | 124 | (*e*) 10 | (*f*) .. | 134 | 35 | .. | 169 | 533 | 89 |
| Total .. | 1,519 | 597 | 3,218 | 5,334 | 1,666 | 580 | 7,580 | 9,959 | 2,626 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. .. .. | 336 | 8 | 1,814 | 2,158 | 580 | .. | 2,738 | 2,435 | 3 |
| Nellore .. .. .. .. | 6 | 15 | 1,016 | 1,037 | 67 | 86 | 1,190 | 230 | 157 |
| Chingleput .. .. .. .. | 90 | 1,078 | .. | 1,168 | .. | .. | 1,168 | 2,814 | .. |
| North Arcot .. .. .. .. | 214 | 2,180 | 22 | 2,416 | (*g*) 60 | 12 | 2,488 | 1,808 | 596 |
| South Arcot .. .. .. .. | 289 | 28 | 1,128 | 1,445 | 600 | .. | 2,045 | 3,805 | 1,538 |
| Salem .. .. .. .. | 286 | 591 | 1,831 | 2,708 | 203 | 37 | 2,948 | 1,263 | 614 |
| Trichinopoly .. .. .. | 439 | (*h*) .. | 1,581 | (*i*) 2,020 | 42 | .. | 2,062 | 1,690 | .. |
| Tanjore .. .. .. .. | .. | 12 | 318 | 330 | .. | .. | 330 | .. | 8 |
| Total .. | 1,660 | 3,912 | 7,710 | 13,282 | 1,552 | 135 | 14,969 | 14,045 | 2,916 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. .. .. | 232 | .. | 2,079 | 2,311 | 55 | 2 | 2,368 | 123 | .. |
| Malabar, North .. .. .. | 7 | 1 | 463 | 471 | 50 | 2 | 553 | 284 | 10 |
| Do. South .. .. .. | 5 | .. | 120 | 125 | 58 | 92 | 275 | 203 | .. |
| Nilgiris .. .. .. .. | 39 | 82 | 746 | 867 | .. | 160 | 1,027 | 643 | 1,384 |
| Coimbatore, North .. .. .. | (*j*) 143 | (*j*) 31 | (*j*) 455 | (*j*) 629 | (*j*) 167 | (*j*) 229 | (*j*) 1,025 | 2,599 | 134 |
| Do. South .. .. .. | 5 | 44 | 427 | 476 | .. | 77 | 553 | 21 | 265 |
| Madura .. .. .. .. | .. | 2 | (*k*) 1,611 | 1,613 | .. | .. | 1,613 | .. | 20 |
| Tinnevelly .. .. .. .. | 58 | 33 | 371 | 462 | 189 | 17 | 668 | 109 | 223 |
| Total .. | 489 | 193 | 6,272 | 6,954 | 549 | 579 | 8,082 | 3,982 | 2,036 |
| Grand Total .. | 3,668 | 4,702 | 17,200 | 25,570 | 3,767 | 1,294 | 30,631 | 27,986 | 7,578 |

*N.B.*—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes.

(*a*) Information cannot be accurately given without local inspection of the boundaries of all blocks.

(*b*) The figures in columns 2 to 8 are not quite accurate as all the reserves are unsurveyed and the maps, only sketches.

(*c*) Represents only work on which expenditure was incurred.

(*d*) Boundaries, common to two reserves, are taken as single boundary lines.

(*e*) The repairs were carried out to boundary pillars only in scattered localities.

(*f*) Information not available.

(*g*) An estimate only.

(*h*) A considerable length of line was repaired free of cost by watchers and coolies, being allowed to remove in return for their services the roots and brushes grubbed up by them.

(*i*) Of these, 980 miles consist of the perimeter of blocks of less than 1 square mile selected and demarcated prior to the recent orders but now thrown out and also the perimeter of those blocks which were once preliminarily but are now permanently demarcated.

(*j*) The lengths given are all only approximate.

(*k*) Taken from the survey of India maps and includes the length of natural boundaries. In the case of a boundary, common to two blocks, the length for each block has been taken into account. The necessary correction will be made in the next year's annual report.

*Note.*—The total expenditure against all the districts except Ganjám, Gódávari, Anantapur, Chingleput, Trichinopoly, Tanjore, Coimbatore (North, and Madura does not tally with the audited figures given against VIII (*a*) in Form No. 59 of the Accountant-General.

## Annual Form No. 47.

*Forest Department, Madras Presidency.*

Statement of Forest Areas surveyed and under survey during the year 1895–96.

| Districts. | Areas surveyed and under survey during the year 1895-96. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Special Surveys—Maps on 4-inch scale or over by Survey of India Department or Madras Survey. | | | | | | | | Ordinary, included in district surveys. | | | | | | | |
| | With interior details. | | | | | Boundary surveys. | | | With interior details. | | | | | Boundary Surveys. | | |
| | With details of growing stock. | | Without details of growing stock. | | Total cost. | Previous. | Of year. | Total cost. | With details of growing stock. | | Without details of growing stock. | | Total cost. | Previous. | Of year. | Total cost. |
| | Previous. | Of year. | Previous. | Of year. | | | | | Previous. | Of year. | Previous. | Of year. | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | RS. |
| Ganjám | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Vizagapatam | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Gódavari | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 9 | 159 | 196 | 3,671 | 55 | 19 | 1,022 |
| Kurnool | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bellary | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 332 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 9 | 159 | 196 | 3,671 | 55 | 21 | 1,354 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Cuddapah | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Nellore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Chingleput | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | .. | .. | (a) 727 | (a) 287 | .. | 748 | 476 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Arcot | .. | .. | .. | 99 | .. | .. | .. | .. | .. | .. | 674 | .. | (b) .. | .. | .. | .. |
| Salem | .. | .. | .. | 340 | .. | 610 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly | .. | .. | .. | .. | .. | .. | 9 | .. | .. | .. | .. | .. | .. | 23 | .. | .. |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | .. | .. | 727 | 726 | .. | 1,358 | 485 | .. | .. | .. | 674 | .. | .. | 23 | .. | .. |
| *Southern Circle.* | | | | | | | | | | | | | | | | |
| South Canara | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Malabar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Malabar | .. | 10 | .. | 48 | .. | (b) .. | 36 | 75 | 513 | .. | .. | .. | .. | .. | 1 | .. | .. |
| Nilgiris | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Coimbatore | .. | .. | .. | 651 | .. | (b) .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Madura | .. | .. | .. | 642 | 1 | (b) .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tinnevelly | .. | .. | .. | 428 | .. | (b) .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | .. | 10 | .. | 1,769 | 1 | .. | 36 | 75 | 513 | .. | .. | .. | .. | .. | 1 | .. | .. |
| Grand Total | .. | 10 | .. | 2,496 | 727 | .. | 1,394 | 560 | 513 | 8 | 9 | 833 | 196 | 3,671 | 79 | 21 | 1,354 |

(a) Exclusive of over lap and demarcated enclosures.

(b) Not given by the Collectors; will be ascertained next year.

## Statement of Forest Areas surveyed and under survey during the year 1895-96—*cont.*

| Districts. | Areas surveyed and under survey during the year 1895-96—*cont.* | | | | | | | | Areas remaining to be taken under survey. | Total forest area at the end of year, as per form No. 44. | Cost. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chain and compass or other surveys by local officers. | | | | | | | | | | | | |
| | With interior details. | | | | | Boundary surveys. | | | | | Previous. | Of year. | Entire cost of all surveys to end of the year. |
| | 4-inch or over. | | Under 4-inch. | | Total cost. | Previous. | Of year. | Total cost. | | | | | |
| | Previous. | Of year. | Previous. | Of year. | | | | | | | | | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | RS. | RS. | RS. |
| Ganjám .. .. .. | .. | .. | .. | .. | .. | .. | 120 | 852 | (*a*) .. | 559 | 5,538 | 852 | 6,390 |
| Vizagapatam .. .. | 114 | 131 | .. | .. | 2,403 | .. | .. | .. | 148 | 415 | 1,158 | 1,245 | 2,403 |
| Gódávari .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 880 | 975 | .. | .. | .. |
| Kistna .. .. .. | .. | 1 | .. | .. | *Nil.* | 72 | 69 | 4,871 | (*b*) 523 | 1,212 | 3,238 + 2,409 | 1,633 + 2,284 | (*c*) 4,871 + 4,693 |
| Kurnool .. .. .. | .. | 5 | .. | .. | 254 | .. | 40 | 630 | 1,743 | 2,244 | .. | 884 | 884 |
| Bellary .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 73 | 637 | .. | 332 | 332 |
| Anantapur .. .. | 310 | 32 | .. | .. | .. | .. | .. | .. | .. | 517 | .. | 901 | 901 |
| Total .. | 424 | 169 | .. | .. | 2,657 | 72 | 229 | 6,353 | 3,367 | 6,559 | 12,343 | 8,131 | 20,474 |
| *Central Circle.* | | | | | | | | | | | | | |
| Cuddapah .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2,357 | .. | .. | .. |
| Nellore .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 661 | .. | .. | .. |
| Chingleput .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 238 | .. | .. | .. |
| North Arcot .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,131 | .. | .. | .. |
| South Arcot .. .. | 6 | .. | .. | .. | (*d*) 52 | .. | .. | .. | (*e*) 625 | 779 | 52 | .. | 52 |
| Salem .. .. .. | .. | .. | .. | .. | .. | 233 | 413 | 1,377 | 377 | 1,464 | 1,733 | 1,330 | 3,063 |
| Trichinopoly .. .. | 1 | .. | .. | .. | .. | .. | .. | .. | (*f*) 160 | 233 | .. | .. | .. |
| Tanjore .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 19 | .. | .. | .. |
| Total .. | 7 | .. | .. | .. | 52 | 233 | 413 | 1,377 | 1,162 | 6,882 | 1,785 | 1,330 | 3,115 |
| *Southern Circle.* | | | | | | | | | | | | | |
| South Canara .. .. | 221 | 46 | 676 | 15 | .. | 133 | 67 | .. | 186 | 1,133 | .. | 1,517 | 1,517 |
| North Malabar .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 272 | .. | .. | .. |
| South Malabar .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 69 | (*g*) 328 | 166 | 347 | 513 |
| Nilgiris .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 462 | .. | .. | .. |
| North Coimbatore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,717 | .. | .. | .. |
| South Coimbatore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 657 | .. | .. | .. |
| Madura .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 5 | 649 | .. | 316 | 316 |
| Tinnevelly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 428 | .. | .. | .. |
| Total .. | 221 | 46 | 676 | 15 | .. | 133 | 67 | .. | 260 | 5,637 | 166 | 2,180 | 2,346 |
| Grand Total .. | 652 | 215 | 676 | 15 | 2,709 | 438 | 709 | 7,730 | 4,789 | 19,078 | 14,294 | 11,641 | 25,935 |

(*a*) Cannot now be estimated with any accuracy. (*b*) One hundred and thirteen square miles surveyed but not plotted and the charge in column 25 includes this.
(*c*) Column 30 includes also district surveys. (*d*) So far as known. (*e*) Excludes 49 square miles proposed to be abandoned.
(*f*) One hundred and thirty-seven square miles will be surveyed by the survey of India Party and outline sketches for the remaining area have been promised by the Madras Revenue Survey Department.
(*g*) Includes Attapadi valley (91 square miles) the demarcation and survey of which is not settled.

## ANNUAL FORM NO. 48.

*Forest Department, Madras Presidency.*

## PROGRESS made in Working Plans.

| District. | Areas for which working plans have been completed. | | Areas for which working plans are being compiled. | | Areas for which working plans have still to be taken in hand. | Total Forest area, as in Form No. 44. | Entire cost per square mile of working plans completed. |
|---|---|---|---|---|---|---|---|
| | At commencement of year. | During year. | At commencement of year. | Taken in hand during year. | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. |
| Ganjám | .. | .. | .. | .. | 559 | 559 | .. |
| Vizagapatam | .. | .. | .. | .. | (a) 415 | 415 | .. |
| Gódávari | 10 | 21 | .. | .. | 944 | 975 | *Nil.* |
| Kistna | 8 | .. | 53 | 628 | 523 | 1,212 | *Nil.* |
| Kurnool | .. | .. | .. | .. | 2,244 | 2,244 | .. |
| Bellary | 12 | .. | 38 | .. | 587 | 637 | .. |
| Anantapur | 1 | .. | .. | .. | 516 | 517 | .. |
| Total | 31 | 21 | 91 | 628 | 5,788 | 6,559 | .. |
| *Central Circle.* | | | | | | | |
| Cuddapah | 3 | .. | .. | .. | 2,354 | 2,357 | .. |
| Nellore | .. | .. | .. | .. | 661 | 661 | .. |
| Chingleput | .. | .. | .. | .. | 238 | 238 | .. |
| North Arcot | .. | .. | .. | .. | 1,131 | 1,131 | .. |
| South Arcot | 5 | 53 | 4 | 18 | (b) 650 | 779 | (c) 52 |
| Salem | 1 | .. | .. | .. | 1,463 | 1,464 | *Nil.* |
| Trichinopoly | (d) 1 | 15 | .. | 32 | 185 | 233 | (e) *Nil.* |
| Tanjore | .. | .. | .. | 4 | 15 | 19 | .. |
| Total | 10 | 68 | 4 | 54 | 6,697 | 6,882 | .. |
| *Southern Circle.* | | | | | | | |
| South Canara | .. | .. | .. | .. | 1,134 | 1,134 | .. |
| Malabar, North | .. | .. | .. | .. | 272 | 272 | .. |
| Do. South | 34 | .. | .. | .. | 294 | 328 | 99 |
| Nilgiris | 5 | 1 | .. | .. | 446 | 452 | 83 |
| Coimbatore, North | .. | .. | .. | .. | 1,717 | 1,717 | .. |
| Do. South | 2 | 6 | .. | .. | 649 | 657 | .. |
| Madura | .. | .. | .. | 16 | 633 | 649 | .. |
| Tinnevelly | 5 | .. | 13 | 2 | 408 | 428 | 81 |
| Total | 46 | 7 | 13 | 18 | 5,553 | 5,637 | .. |
| Grand Total | 87 | 96 | 108 | 700 | 18,038 | 19,078 | .. |

(a) No working plans can be prepared till maps are prepared. (b) Excludes blocks proposed to be abandoned.
(c) So far as known. (d) Plantations on the south bank of the Cauvery. (e) Prepared by the ordinary staff.

| District. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new work. |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Northern* |
| | | Rs. | *Block lines.* | Mls. | Rs. | Rs. |
| Ganjám .. | Construction of sheds for permit-issuing gumastahs, &c.— | | Jodobondo-Gullery .. .. | 4 | 180 | |
| | | | Jodobondo-Kutinkuppa .. | | 10 | |
| | Suramoni shed .. .. | 77 | Boppangi-Birkot .. .. .. | 1 | 50 | |
| | Gangupur shed .. .. | 70 | Malachencharapalli-Kontaipalli. | 1 | 19 | |
| | Panchibhuthi shed .. .. | 16 | Birkot-Konubondo .. .. | | 32 | |
| | Berhampore shed .. .. | 71 | Sanogondo-Dantulingi .. .. | 1 | * 3 | |
| | | | Pippalaponka-Sanogondo .. | 2 | * 4 | |
| | | | Sanogondo-Jedingibondo .. | 1 | * 3 | |
| | | | Conchia-Kattibadi .. .. | 2 | * 15 | |
| | | | Maharatapalli-Korasingi .. | | * 13 | |
| | | | Bodopoda-Jatra .. .. .. | 1 | * 10 | |
| | | | Kurcholly-Tikarapalli .. .. | 1 | * 7 | |
| | | | Somolayi-Panchiboothi .. .. | 2 | * 8 | |
| | | | Jodopoda-Singapur .. .. | | * 8 | |
| | | | Kriamba-Jodopoda .. .. | 2 | * 17 | |
| | | | Banasuro Kriamba .. .. | | 56 | |
| | | | Singapur-Nuvapalli .. .. | 1 | * 20 | |
| | | | *Roads.* | | | |
| | | | Telike-Rogoda road .. .. | 176,377 square feet. | 181 | |
| | Total, Ganjám .. | 234 | Total .. | .. | 636 | 870 |
| | *Palkonda.* | | | | | |
| Vizagapatam. | Rest-house at Gudlagora .. | 236 | .... | .. | .. | |
| | Palavalasa tanna .. .. | 28 | .... | .. | .. | |
| | Forest guard's shed at Kaviti.. | 25 | .... | .. | .. | |
| | Narasipuram tanna .. .. | 32 | Palavalasa-Bomica road .. .. | 1 | 115 | |
| | Gopalapuram forest guard's shed .. .. .. .. | 12 | .... | .. | .. | |
| | Veeragattam tanna .. .. | 18 | .... | .. | .. | |
| | Gudlagora lines .. .. .. | 34 | .... | .. | .. | |
| | Venkatapuram tanna .. .. | 6 | .... | .. | .. | |
| | *Golgonda.* | | | | | |
| | Rest-house at Kodavatipudi .. | 76 | .... | .. | .. | |
| | Do. at Nathavaram .. | 400 | .... | .. | .. | |
| | Do. at Krishnadanipet.. | 204 | .... | .. | .. | |
| | Elephant shed .. .. .. | 40 | .... | .. | .. | |
| | Lines for mahout .. .. | 40 | .... | .. | .. | |
| | Out-houses to Kodanatipudi rest-house .. .. .. | 15 | .... | .. | .. | |
| | *Sarvasiddhi.* | | | | | |
| | Rest-house at Kotali .. .. | 400 | .... | .. | .. | |
| | Hut in Padapali .. .. | 44 | Padapalli road .. .. .. | 3 | 375 | |
| | Hut near the well in Padapalli. | 23 | .... | .. | .. | |
| | Stables in Kottali .. .. | 24 | .... | .. | .. | |
| | Total, Vizagapatam .. | 1,657 | Total .. | 4 | 490 | 2,147 |

* For clearing only.

FORM No. 49.

*Madras Presidency.*

and Buildings.

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |

*Circle.*

| | RS. | | MLS. | RS. | RS. |
|---|---|---|---|---|---|
| Pay of bungalow-watchers and re-thatching, &c.— | | *Repairing block lines.* | | | |
| Tilsingi bungalow .. .. | 70 | Geroda-Komosoro .. .. .. .. | 1 | | |
| Chendragiri do. .. .. | 60 | Ketmundate-Kondgallery .. .. | 2 | 18 | |
| Gayagonda do. .. .. | 60 | Busabusa-Somorobondo .. .. .. | 1 | | |
| Gemdribady do. .. .. | 60 | Lambhai-Gorodopothoro .. .. .. | 1 | 5 | |
| Bontha do. .. .. | 60 | Lambhai-Chandragiri .. .. .. | 1 | | |
| Jagannadhaprasad do. .. .. | 122 | Sorosomolo-Budagocha .. .. .. | 2 | 14 | |
| Tarsingi do. .. .. | 62 | Pudringi .. .. .. .. | 1 | 1 | |
| Russelkonda do. .. .. | 201 | Kutnikuppa-Suppunakalo .. .. | | 4 | |
| Hattiguda do. .. .. | 60 | Budogocha-Kutnikuppa .. .. .. | 1 | 5 | |
| Baibally do. .. .. | 60 | Samarada .. .. .. .. | | 1 | |
| Rambha do. .. .. | 60 | Godaipoda-Ketunumdali .. .. .. | 2 | 7 | |
| Gullery do. .. .. | 57 | Gayagondo-Gogodo .. .. .. | 2 | 7 | |
| Russelkonda depôt .. .. .. | 25 | Kutnikuppa-Komosoro .. .. .. | 1 | 3 | |
| Osurobondo bungalow .. .. | 73 | Sisundi-Tirikuppa .. .. .. | 1 | 4 | |
| Latipada do. .. .. | 72 | Tirikuppa-Kethwenedali .. .. .. | 2 | 2 | |
| Surada do. .. .. | 74 | Komosoro-Jainopalli .. .. .. | | 6 | |
| Kurcholly do. .. .. | 30 | Komosoro-Busabusa .. .. .. | 2 | 9 | |
| Berhampur do. .. .. | 248 | Pudringi-Berumabady .. .. .. | 1 | 3 | |
| Chatrapur do. .. .. | 68 | Gudadandi-Modhupur .. .. .. | 3 | 21 | |
| | | Birkot-Longolokolo .. .. .. | 4 | 24 | |
| | | Kalagam-Chunapalli .. .. .. | 5 | 31 | |
| | | Mudlapalli-Bankaneddi .. .. .. | 4 | 25 | |
| | | Kutnikuppa-Miniari .. .. .. | 1 | 9 | |
| | | Jodobondo-Dangnapalli .. .. .. | 2 | 8 | |
| | | Budili-Raipalli .. .. .. .. | 2 | 10 | |
| | | Vinjigiri-Siddapodro .. .. .. | 2 | 9 | |
| | | Pondokal roads .. .. .. .. | 2 | 27 | |
| | | Latipada-Tinkondia .. .. .. | 3 | 2 | |
| | | Gurandia-Dubady .. .. .. | 2 | 6 | |
| | | Bankanedi-Tinkondia .. .. .. | 2 | 7 | |
| | | Other works .. .. .. .. | .. | 268 | 1,785 |
| | | | .. | .. | 25 |
| Total .. | 1,517 | Total .. | .. | 268 | 1,810 |
| *Palkonda.* | | *Golgonda.* | | | |
| Velagada tanna .. .. .. .. | 12 | Arlova road .. .. .. .. .. | 5 | 178 | |
| Veeragattam permit-gumastah's shed .. | 20 | Krishnadanipet road .. .. .. | 1 | 307 | |
| Doors for existing buildings .. .. | 30 | Narasapatam Range office road .. .. | | 19 | |
| Jambada bungalow .. .. .. | 44 | *Sarvasiddhi.* | | | |
| *Golgonda.* | | | RS. A. P. | | |
| Repairs to Narasipatam Range office .. | 45 | Vamagiri .. .. .. | 18 2 0 | | |
| Gantavarikottagudem shed .. .. | 50 | Gokivada .. .. .. | 5 3 6 | | |
| Padapet bungalow .. .. .. | 50 | Punchadharla .. .. .. | 4 11 0 | | |
| Golgonda rest-house .. .. .. | 47 | Ramballi .. .. .. | 2 10 6 | | |
| Repairs to Narasipatam Range office .. | 50 | Total .. | 30 11 0 | 6 | 31 |
| Add as per Accountant-General's audited figures .. .. .. .. .. | 106 | Add as per Accountant-General's audited figures .. .. .. .. .. | .. | 19 | |
| | | | 12 | 554 | 1,008 |
| | | Other works .. .. .. .. | .. | .. | 47 |
| Total .. | 454 | Total .. | 12 | 554 | 1,055 |

| Districts. | New work undertaken during the year. | | | | | Total expenditure on new work. |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Northern* |
| | | Rs. | | Mls. | Rs. | Rs. |
| Gódávari .. | Rest-house at Mallavaram .. | 239 | 1. Puliramudugudemchinthapalli road .. .. .. | 4 | 320 | |
| | Do. at Rajavommangi .. | 88 | | | | |
| | Rest-house at Puliramudugudem .. .. .. | 549 | | | | |
| | Rest-house at Sukamamidi .. | 246 | | | | |
| | Do. at Yeduguralapalli with outhouses .. .. | 154 | | | | |
| | Rest-house at Kondepudi .. | 153 | | | | |
| | Outhouse to the Mulagalampalli bungalow.. .. .. | 7 | | | | |
| | Outhouse to Mallavaram bungalow. .. .. .. | 60 | | | | |
| | Tannadar's shed at Yenavaram. | 49 | | | | |
| | Elephant shed at Rekapalli .. | 30 | | | | |
| | Sinking a well in the compound of Mulagalampalli bungalow. | 40 | | | | |
| | Facing the above well .. | 106 | | | | |
| | Total, Gódávari .. | 1,721 | Total .. | 4 | 320 | 2,041 |
| Kistna .. | Platforms to pitch tents near range camps at Chezerla, Gutlapelli and Brahmadevanibhavi .. .. .. .. | 90 | Road from Karempudi to Adigoppala *vid* Brahmadevanibhavi .. .. .. .. | 10 | 563 | |
| | Range camp, Srigiripad .. | 290 | Road from Veerabhadrapuram to Srigiripad .. .. .. | 8 | 410 | |
| | Do. Nagalavaram .. | 290 | Veerudi Ranama road .. .. | 6 | 390 | |
| | Do. Daida .. .. | 300 | Road from Ibrampatam to Loga. | 4 | 903 | |
| | Do. Guttikonda .. | 270 | | | | |
| | Total, Kistna .. | 1,240 | Total .. | 28 | 2,266 | 3,506 |
| Kurnool .. | Part construction of Nandyál Range house .. .. .. | 3,190 | Part construction of a road on both sides of Chelama Railway station line to the intended level crossing .. .. .. | .. | 31 | |
| | Construction of forest guard's and tannadar's house at Gandleru in Sirvel taluk .. .. | 335 | Laying out a road from Gazulapalli bungalow to Railway level crossing and drawing the compound .. .. .. | .. | 268 | |
| | Part construction of forest guard's and tannadar's house at Bundlagudda .. .. | 383 | | | | |
| | Completion of a tanna house at Morvakonda commenced previous year .. .. .. | 23 | | | | |
| | Completion of a tanna house at Musalinedju .. .. .. | 22 | | | | |
| | Completion of Chelama cooly lines commenced in previous years .. .. .. .. | 19 | | | | |
| | Part petty construction of a forest guard and line peon's hut .. .. .. .. | 30 | | | | |
| | Total, Kurnool .. | 4,002 | Total .. | .. | 299 | 4,301 |
| Bellary .. | Forest guard's hut at Shivapuram .. .. .. .. | 104 | .... | .. | .. | |
| | Forest guard's hut at Jittanagattu .. .. .. .. | 96 | | | | |
| | Forest guard's hut at Nallapuram .. .. .. .. | 55 | | | | |
| | Forest guard's hut at Kallahalli .. .. .. .. | 85 | | | | |
| | Forest guard's hut at Mincheri. | 63 | | | | |
| | Do. do. at Malpanagudi .. | 103 | | | | |
| | Total, Bellary .. | 506 | Total .. | .. | .. | 506 |

and Buildings.

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle*—cont. | | | | | |
| | Rs. | | Mls. | Rs. | Rs. |
| For retiling and roofing and repairing the walls of Mulagalampalli rest-house .. .. .. .. | 113 | 1. Repairs and improvements to the cart-track from Gudikonda to Timmalayapalem .. .. .. .. .. | 7 | 72 | |
| Rethatching of Rekapalli rest-house .. | 26 | 2. Repairs and improvements to the cart-track from Pidatanaimudi to Timmapuram .. .. .. .. .. | | 475 | |
| Do. of Jaggampeta tannadar's shed .. .. .. .. | 3 | | | | |
| Repairs and retiling of Senkavaram tannadar's shed .. .. .. | 25 | | | | |
| Repairs of Mogaltur tannadar's shed.. | 7 | | | | |
| Repairs of Jidiguppa rest-house .. | 42 | | | | |
| Pay of bungalow watchers .. .. | 484 | | | | |
| Total .. | 700 | Total .. | 7 | 547 | 1,247 |
| Kitchen attached to Kondapalli bungalow .. .. .. .. .. | 5 | Repairs to Kondapalli hill road, 2nd and 3rd sections .. .. .. | *1 | 369 | |
| Shed at Kara .. .. .. .. | 17 | | | | |
| Shed at Gopuvanipalem .. .. | 10 | Total .. | 1 | 369 | 512 |
| Hut at Kothapalem .. .. .. | 25 | | | | |
| Watchers' huts, Adavuladivi .. .. | 27 | Other works A-VII (*c*) .. .. .. | .. | .. | 388 |
| Huts, Lankavanitippa .. .. .. | 46 | | | | |
| Shed at Bombay basin .. .. .. | 16 | | | | |
| Deduct as per Accountant-General's figures .. .. .. .. .. | — 3 | | | | |
| Total .. | 143 | Total .. | 1 | 369 | 900 |
| Repairs to Cumbum bungalow purchased from Railway Department .. | 1,436 | Part repairing the Mantralakanama ghât road taken over from Local Fund Department .. .. .. .. .. | .. | 326 | |
| Repairs to Atmakur rest-house (part). | 184 | Repairing the road from Komitivanibavi to Adutla .. .. .. | 7 | 100 | |
| Part repairs to Adulta bungalow .. | 70 | Do. the Pecheruvu tank bund so that road may be continued to the rest-house. .. .. .. | .. | 315 | |
| Do. to Mantrala house .. | 44 | Do. the Ernapad timber slide and cart-track .. .. .. | .. | 108 | |
| Do. to Bairunti bungalow .. | 25 | Clearing the public paths and cart-tracks admitted in the settlement .. .. | 144 | 205 | |
| Repairs to Venkatapuram tanna house. | 60 | | | | |
| Petty repairs costing below Rs. 50 each to 5 works .. .. .. .. | 105 | | 151 | 1,054 | 3,414 |
| Cost of establishment .. .. .. | 436 | Others works A-VII (*c*) .. .. .. | .. | .. | 77 |
| Total .. | 2,360 | Total .. | 151 | 1,054 | 3,491 |
| Sandur Range house .. .. .. | 497 | Repairs to the Donimalai road .. .. | 4 | 190 | |
| Donimalai rest-house .. .. .. | 45 | Do. to cart-tracks in 10-B compartment. | 1 | 50 | |
| Tanna shed at Yettinahatty .. .. | 1 | | | | |
| Total .. | 543 | Total .. | .. | 240 | 783 |

* Metalling.

| Districts. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new works. |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Northern* |
| | | Rs. | | Mils. | Rs. | Rs. |
| Anantapur .. | Rest-house at Bukkapatnam under construction (partly constructed) .. .. .. | 695 | .... | .. | .. | .. |
| | Construction of a tannah hut at Kodur .. .. .. .. | 8 | .... | .. | .. | .. |
| | Total, Anantapur .. | 703 | | .. | .. | 703 |
| | Total, Northern Circle .. | 10,063 | | .. | 4,011 | 14,074 |
| | | | | | | *Central* |
| Cuddapah .. | Rest-house at Bhakrapet, Vayalpad range .. .. .. | 935 | .. | .. | .. | .. |
| | Erection of pandal on three sides of Forest bungalow, Piler, Vayalpad range .. | 37 | .. | .. | .. | .. |
| | Construction of a Forest guard's hut at Mannimapalli, Cuddapah range .. .. | 20 | .. | .. | .. | .. |
| | Construction of a Forest guard's hut at Maddimadugu, Cuddapah range .. .. | 20 | .. | .. | .. | .. |
| | Construction of a kitchen for Venkatapuram shed .. .. | 9 | .. | .. | .. | .. |
| | | | Pedarallasagudu road extension (export of timber to railway station) .. .. .. .. | 1 | 230 | .. |
| | | | Road in Lankamali reserve to facilitate transport of timber. | .. | 319 | .. |
| | | | Peddarallasagudu road with three culverts (export of timber to railway station) .. .. | 1 | 108 | .. |
| | Total .. | 1,021 | Total .. | .. | 657 | 1,678 |
| Nellore .. | .... | .. | .... | .. | .. | .. |

## and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle*—cont. | | | | | |
| | Rs. | | MLS. | Rs. | Rs. |
| Re-thatching the stables attached to the Forest bungalow at Konappanayanapalli .. .. .. .. .. | 50 | Re-metalling the road leading from Kothakota to Konappanayanapalli bungalow. | About | 36 | .. |
| Repairs to roof of the range office at Bukkapatnam .. .. | 2 | Re-metalling the road in the Awagondapaliem reserve .. .. .. .. | 1 | 2 | .. |
| Do. Patha Kothacheruvu Forest bungalow .. .. .. | 50 | | | | |
| Do. Forest guards' quarters at Guttur .. .. .. | 78 | | | | |
| Do. Head-quarter's bungalow .. | 15 | | | | |
| Clearing compound and cutting grass, &c., and planting milk and thorny hedge in the head-quarter's bungalow .. .. .. .. .. | 39 | | | | |
| Cost of establishment and sundries .. | 304 | | | | |
| Total .. | 538 | Total .. | 4 | 38 | 576 |
| Total, Northern Circle .. | 6,255 | | .. | 3,070 | 9,862 |
| *Circle.* | | | | | |
| Repairs to Kodur depôt peons' hut .. | 4 | | | | |
| Do. Reddipalle tannahdars' hut. | 5 | | | | |
| Do. Pullampet gardener's hut. | 4 | | | | |
| Do. Kodur tannah house .. | 55 | | | | |
| Do. Forest bungalow, Vontimittah (re-roofing) .. | 92 | | | | |
| Re-construction of a tannah shed at Gollapalli .. .. .. .. | 16 | | | | |
| Repairs to Rajampet depôt fence .. | 1 | | | | |
| Do. Sidhout range bungalow .. | 57 | | | | |
| Do. Tannah hut at Pattur .. | 10 | | | | |
| Do. Forest guard's hut at Idupalapaya .. .. .. | 14 | | | | |
| Do. Forest guard's hut at Nallamadu .. .. | 21 | | | | |
| Do. tannah hut at Bijipalli .. | 8 | | | | |
| Do. Piler forest bungalow .. | 40 | | | | |
| Do. Forest guard's hut at Budduguntapalli .. .. | 4 | | | | |
| Do. Forest guard's hut at Rollamadugu .. .. .. | 4 | | | | |
| Do. Forest guard's hut at Chimbalachelaka .. | 4 | | | | |
| Do. Forest guard's hut at Kutamari .. .. .. | 4 | | | | |
| Do. Tannah shed at Jiniagapalli. | 5 | | | | |
| Do. „ „ at Doddupalli. | 4 | | | | |
| Do. Forest guard's hut at Volluri-vaipalli .. .. .. | 6 | | | | |
| Do. Tannah at Kummavandlabhavi .. .. .. | 4 | | | | |
| Do. Tannah at Nayanivaripalli. | 6 | | | | |
| Do. Rest-house at Peddabhavi.. | 44 | | | | |
| Do. Forest guard's hut at Tamballapalli .. .. | 12 | | | | |
| Do. Forest guard's hut at Tettu. | 12 | | | | |
| Cost of bungalow watcher .. .. | 255 | | | | |
| Sundries .. .. .. .. .. | 20 | | | | |
| | | Clearing channel and filling up ruts in Balapalli-Vayalpad road wherever necessary .. .. .. .. .. .. | 16 | 50 | .. |
| | | Repairs to Peddarallasagadu road .. | 1 | 383 | .. |
| | | Tramway expenses .. .. .. .. | .. | 23 | .. |
| | | Deduct as per Accountant-General's statement .. .. .. .. .. | .. | 5 | .. |
| Total .. | 710 | Total .. | 17 | 451 | 1,161 |
| Add as per Accountant-General's Statement Form No. 59 .. .. | 24 | | .. | .. | 24 |

| Districts. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new works. |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Central* |
| | | Rs. | | MLS. | Rs. | Rs. |
| Chingleput .. | Construction of an out-house with stables to the new rest-house at Sathiavedu .. .. | 100 | .... | .. | .. | .. |
| | Total .. | 100 | | .. | .. | 100 |
| | *A-VII (b)—Buildings.* | | *A-VII (a)—Roads and Paths.* | | | |
| North Arcot .. | Erection of a shed at Nagaputta. | 10 | Peddur road .. .. .. | 2 | 1,940 | .. |
| | Completion of a rest-house at Nelliputla .. .. .. | 90 | Total .. | 2 | 1,940 | 2,301 |
| | Kitchen at Nelliputla .. .. | 33 | | | | |
| | Shed at Mulakad .. .. | 60 | | | | |
| | Do. Amerdi .. .. | 12 | | | | |
| | Erecting walls to the stable at Arungaldroog .. .. .. | 15 | | | | |
| | Construction of a stable at Odughathoor .. .. .. | 72 | | | | |
| | Construction of a stable and kitchen at Kilminnel .. .. | 69 | | | | |
| | Total .. | 361 | | | | |
| South Arcot .. | Erecting a platform in front of the Melpat bungalow, Tiruvannámalai range .. .. | 88 | .... | .. | .. | .. |
| | Construction of a stable in the Chengam rest-house .. .. | 19 | | | | |
| | Construction of an apron around the Kavuthi well .. | 89 | | | | |
| | Total .. | 196 | Total .. | .. | .. | 196 |

## and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle*—cont. | | | | | |
| | Rs. | | Mls. | Rs. | Rs. |
| Repair of new rest-house at Sathiavedu.. .. .. .. | 25 | .... | | | |
| Do. Nellikuppam rest-house .. | 75 | | | | |
| Do. Kadoor tannah .. .. | 3 | | | | |
| Do. Guindy tannah .. .. | 6 | | | | |
| Total .. | 109 | Total .. | .. | .. | 109 |
| *A-VII (b)—Buildings.* | | *A-VII (a)—Roads and Paths.* | | | |
| Repair of Paradarami rest-house .. | 33 | Repair of Mussalimadugu road .. .. | 3 | 75 | .. |
| Do. Mamundur rest-house .. | 11 | ,, Kylasagiri road .. .. | collection | 88 | |
| Do. Naikaneri bungalow and stable .. .. .. | 14 | ,, Santavasal Shumboga tope road. | of 5,500 cft. of metal. | 49 | .. |
| Do. Palmanér range office .. | 21 | | | | |
| Do. Peddur rest-house .. .. | 9 | | .. | 212 | 1,186 |
| Do. Morthona bungalow .. | 9 | | | | |
| Do. Kitchen to Morthona bunglow | 25 | | | | |
| Do. Arungabdrug rest-house .. | 5 | *Other Works.*—A-VII (c) | .. | .. | 78 |
| Do. Satghur bungalow .. .. | 4 | | | | |
| Do. Ambur rest-house .. .. | 29 | | | | |
| Do. Kylasagiri bungalow .. | 8 | | | | |
| Do. Odugathur rest-house .. | 3 | | | | |
| Do. Attuvambadi rest-house .. | 60 | | | | |
| Do. Patrakad bungalow .. .. | 1 | | | | |
| Do. large and small bungalow at Amardi .. .. .. | 120 | | | | |
| Do. Mandapari bungalow .. | 146 | | | | |
| Add pay of rest-house watchers .. | 476 | | | | |
| Total .. | 974 | Total .. | .. | 212 | 1,264 |
| Repairs to No. II range office .. .. | 7 | Repairing the ghat road Tenmalais .. | 7 | 69 | .. |
| White-washing the guards and watchers line at Paramandal .. .. .. | 7 | Add cost of establishment under A-VII (a). | .. | 122 | .. |
| Repairing the Kairethi compound .. | 2 | | | | |
| Repairs to the roof of the kitchen at Tiruvannámalai .. .. .. | 7 | | | | |
| Repairs to the stable at Tiruvannámalai | 22 | | | | |
| White-washing the Tirukkóyilór range office building .. .. .. .. | 7 | | | | |
| Repairs to the gate of the Tiruvannámalai rest-house .. .. | 9 | | | | |
| Do. the Shanikulam shed .. | 1 | | | | |
| Do. the Tiruvannámalai range office compound .. . | 1 | | | | |
| Do. the Killai forest shed .. | 5 | | | | |
| Add cost of establishment under A-VII (b) .. .. .. .. .. | 349 | | | | |
| Total .. | 417 | Total .. | 7 | 191 | 608 |
| | | Other works .. | .. | .. | 113 |
| | | Grand total of expenditure under A-VII (a), (b) and (c) .. | 7 | 191 | 7 |

Communications

| Districts. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new work. |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Central* |
| | | RS. | | MLS. | RS. | RS. |
| Salem .. | Kitchen and stable at Andiappanoor. | 48 | .... | .. | .. | .. |
| | Stable, Dharmapuri Range office. | 297 | | | | |
| | Rest-house on the Chetteri Hills. | 80 | | | | |
| | Total .. | 375 | Total .. | .. | .. | 375 |
| Trichinopoly. | Thatched rest-house near the Pachamalais in Sogapuram in Musiri Range with out-houses and stables. | 733 | .... | .. | .. | |
| | Total .. | 733 | Total .. | .. | .. | 733 |
| Tanjore .. | .... | .. | Inspection path along the boundary of the Vettangudi reserved forest. | 14 | 71 | 71 |
| | Total .. | .. | Total .. | .. | 71 | 71 |
| | Total, Central Circle .. | 2,786 | Total .. | .. | 2,668 | 5,454 |
| | | | | | | *Southern* |
| †South Canara. | Construction of Pani Mangalore temporary shed. | 8 | .... | .. | .. | .. |
| | Total .. | 8 | Total .. | .. | .. | 8 |
| North Malabar. | Serambi at Manikat Vayal .. | 244 | A road 8′ wide to join the Pongudi deviation .. .. | .. | 44 | .. |
| | Serambi at Marguddai ‡ .. | 300 | A cart road in the Mavanhulla reserved forest .. .. .. | 4 | 325 | .. |
| | An Elephant Kraal at Muthanga .. .. .. .. | 282 | Cost of putting up sign boards to roads .. .. .. .. | .. | 287 | .. |
| | Elephant Kraal at Begur § .. | 245 | | | | |
| | Add as per Accountant-General's statement .. .. .. | .. | | .. | .. | .. |
| | Total .. | 1,071 | | .. | 656 | 1,727 |

* This is a Local Fund road; the Forest department does the work and
† Three temporary sheds built at a cost of Rs. 71-15-0 and their monsoon
‡ Almost completed. § Almost completed

and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circl* —cont. | | | | | |
| | Rs. | | MLS. | Rs. | Rs. |
| Purchase of lock to Singarapett rest-house and white-washing .. .. | 9 | .... | .. | .. | .. |
| Dharmapuri Range office and compound walls .. .. .. .. .. | 223 | | | | |
| Anchetty rest-house .. .. .. | 18 | | | | |
| Pennagaram rest-house .. .. .. | 55 | | | | |
| Denkanikotta Range office .. .. | 474 | | | | |
| White-washing Tirupattur Range office. | 3 | | | | |
| Do. Hosúr Range office .. | 3 | | | | |
| Repair of Atur Range office compound wall .. .. .. .. .. | 310 | | | | |
| Repair of thatched shed at Harúr .. | 42 | | | | |
| White-washing Námakkal Range office. | 6 | | | | |
| Total, Salem .. | 1,143 | Total .. | .. | .. | 1,143 |
| Re-roofing the Pudupalaiyam tiled forest bungalow .. .. .. | 396 | * Maintaining and improving the Sogapuram-Sengattupatti ghaut road and planting avenue trees .. .. .. | 4 | 367 | .. |
| Repairing the kitchen and stables in Kalpatti tiled rest-hut .. .. | 30 | | 4 | 367 | 793 |
| | | Other works, A-VII (*a*) .. .. .. | .. | .. | 7 |
| Total .. | 426 | Total .. | .. | 367 | 800 |
| Repairing the roof of the rest-house at Tirumalavásal and replacing two windows in the office-room of the rest-house .. .. .. .. .. | 20 | .... | .. | .. | 20 |
| Total .. | 20 | Total .. | .. | .. | 20 |
| Total, Central Circle .. | 3,823 | Total .. | .. | 1,221 | 5,242 |
| *Circle.* | | | | | |
| Renewing the floor, doors and windows, shifting tiles, renewing bamboo mats, ceiling over a portion, railing to the verandah of the "Range office," Coondapoor .. .. .. .. | 258 | .... | .. | .. | 318 |
| Monsoon repairs to Range office, Coondapoor .. | 11 | | | | |
| Do. do. Sabladi .. | 5 | | | | |
| Do do. Wandse. | 5 | | | | |
| Repairs to Shiradi tanna .. .. | 10 | | | | |
| Repairs to Charmadi tanna .. .. | 8 | Other works. A-VII (*a*) .. .. .. | .. | .. | 1 |
| White-washing of Puttur Range office gate .. .. .. .. .. | 3 | | | | |
| Monsoon repairs to Parappa hut .. | 18 | | | | |
| Total .. | 318 | Total .. | .. | .. | 319 |
| Matting Koondacoon bungalow .. | 13 | Repairing Chedaleth Muthanga road .. | 14 | 62 | .. |
| Repairing Chedaleth and Kuppadi out-houses .. .. .. .. .. | 26 | Repairing the sides of the road leading to Peruvayal .. .. .. .. | 1 | 26 | .. |
| General annual repairs and alterations to the District Forest Lodge, Manantoddy .. .. .. .. .. | 112 | A compartment road between teak and bamboo plantation of Kannoth .. | 35 | 33 | .. |
| Repairs to Dindumal bungalow compound .. .. .. .. .. | 13 | Repairing road leading to Brammagiri from Tirunelli .. .. .. .. | 6 | 74 | .. |
| Repairing Kurchyat rest-house .. | 45 | Repairing Chambal, Arulaguddai, Masalbetta, Naikal Boothakal Shittu Kymaram roads .. .. .. .. | .. | 259 | .. |
| Constructing a new fence round Mukkie Serambi .. .. .. .. | 29 | | 56 | 454 | 937 |
| Repairs to Chedaleth and Oodapallem out-houses .. .. .. .. | 46 | | | | |
| Repairing the Tirunelli and Brammagiri bungalows .. .. .. | 69 | Other works under A-VII (*a*) .. .. | .. | .. | 1,216 |
| Repairs to Begur camp .. .. .. | 64 | | | | |
| Add as per Accountant-General's statement .. .. .. .. .. | 66 | | | | |
| Total .. | 483 | Total .. | 56 | 454 | 2,153 |

the Local Fund department supplies the money.
repair at a cost of Rs. 12-5-8 have been omitted in this return in column 2.

| District. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new work. |
| | Description of buildings. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Southern* |
| | *Nilambúr Range.* | RS. | | MLS. | RS. | RS. |
| South Malabar Forest division. | Constructing Ranger's and Forester's quarters in Nilambúr. | 75 | .... | .. | .. | .. |
| | Constructing two sheds in the Kallai depôt compound. | 300 | .... | .. | .. | .. |
| | Total .. | 375 | Total .. | .. | .. | 375 |
| Nilgiris .. | Forest Guard's hut at Longwood .. .. .. .. | 150 | A new road to Mukkatti .. .. | 3 | 250 | .. |
| | Shed at Wellington Depôt for storing split fuel in .. .. | 41 | And a path in Kunbarukodi forests .. .. .. .. | 1 | 116 | .. |
| | | | A new road in Mudumalai forest. | 2 | 468 | .. |
| | | | Muthanad road .. .. .. | | | |
| | Total .. | 191 | Total .. | 6 | 834 | 1,025 |
| Coimbatore (North). | Constructing a combined rest-house and range office at Talamalai .. .. .. | 1,615 | Mavanatham-Talamalai bridle-path for connecting the head-quarters of the range with Dimbum .. .. .. | 9½ miles of line clearing for tracing the path. | * 177 | .. |
| | Sandalwood store at Suragoundenhalli .. .. | 303 | | | 2 | .. |
| | Sandalwood store and chipping shed at Suragoundenhalli .. .. .. .. | 130 | Tracing Gundila bridle-path .. | .. | | |
| | Sandalwood store and chipping shed at Kollegal .. | 98 | | | | |
| | Rest-house on the top of Biligiri Rangam Hills near Bellaju .. .. .. | 1,605 | | | | |
| | A shed near Araipollium .. | 21 | | | | |
| | Sandalwood chipping shed at Bhavâni .. .. .. | 9 | | | | |
| | Rest-house at Chellanpalliem .. | 733 | | | | |
| | Rest-house at Thattakarai .. | 1,069 | | | | |
| | Total .. | 5,583 | Total .. | .. | 179 | 5,762 |

* Includes cost of
† Including cost

and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle*—cont. | | | | | |
| | RS. | | MILES. | RS. | RS. |
| Repairing charges for the District Forest-officer's bungalow .. .. | 40 | Repairing the road leading to District Forest-officer's bungalow .. .. | 1 | 40 | .. |
| Reconstructing the out-house attached to District Forest-officer's bungalow .. .. .. .. | 20 | Repairing and widening the Panangodi bridle path .. .. .. .. | 1 | 90 | .. |
| Monsoon repairs to buildings in Nilambúr range .. .. .. .. | 100 | | | | |
| Monsoon repairs to the thatched buildings in Amarampalam range.. .. | 20 | | | | |
| Firetracing the yards around Karien Srambi .. .. .. .. .. | 3 | | | | |
| Repairing Karimala bungalow withir on rails .. .. .. .. .. | 386 | Repairing cart-track from Dhoni to Kavarakunnu .. .. .. .. | 2 | 77 | .. |
| Making monsoon thatties to Karimala bungalow .. .. .. .. | 25 | | 4 | 207 | 838 |
| Rethatching kitchen and stable at Dhoni .. .. .. .. .. | 37 | Other works, A-VII (*c*) .. .. .. | .. | .. | 77 |
| Total, South Malabar .. | 631 | Total .. | 4 | 207 | 915 |
| Repairs to buildings in Mudamalai range and clearing compounds and repairs to fences .. .. .. | 296 | Repairs to roads and bridges, Mudumalai range .. .. .. .. .. | 20 | 649 | 945 |
| Repairing the range quarters and thatching sandalwood godown in Sígúr range .. .. .. .. | 100 | Repairs to the road to Anakotty and removing brushwood in Sígúr range .. | 2 | 60 | 160 |
| Rethatching and white-washing buildings in Ooty and Coonoor ranges. | 285 | Repairs of all existing roads and inspection paths in Ooty range .. .. | 25 | 356 | 630 |
| | | Repairing Rallia road in Coonoor range .. | .. | 12 | 185 |
| | | Total .. | .. | 1,077 | 1,758 |
| | | Other works, A-VII (*c*) .. .. .. | .. | .. | 162 |
| Total .. | 681 | Total .. | .. | 1,077 | 1,920 |
| Rethatching the out-houses of the rest-house at Gairmallam .. .. | 17 | Filling up ruts and cutting and widening road here and there for 1,805 yards of earth-work in Hásanúr-Bylur road to complete the sanctioned repairs of 1894-95 .. .. .. .. .. | .. | 253 | .. |
| Roofing and retiling Kongarpollium tanna shed .. .. .. .. | 15 | Repairing Dimbum Talamalai bridlepath 6 feet wide .. .. .. .. | 4 | 51 | .. |
| Putting a new door to the Range office at Satyamangalam .. .. .. | 14 | Gravelling, digging side drains, revetment, blasting, &c., in Ajjupuram-Girkakundy road .. .. .. .. | 13 | 675 | .. |
| Roofing and retiling the old bungalow at Suragoundenhalli .. .. .. | 80 | Gravelling digging side drains, revetment, blasting, &c., in Burghur ghaut road .. .. .. .. .. | 12 | 1,154 | .. |
| Roofing and retiling the sandalwood shed at Kollegal .. .. .. | 49 | Gravelling, digging side drains, revetment, blasting, &c., in Lókkanally-Bylur road .. .. .. .. .. | 14 | 1,678 | .. |
| White-washing and cleaning bungalow at Bylur .. .. .. .. | 5 | Hásanúr-Bylur road repairing, erecting 320 yards of parapet wall and blasting rock, 300 R. feet .. .. .. | 3 | † 640 | .. |
| White-washing and cleaning bungalow at Lockanalli .. .. .. .. | 5 | | 48 | 4,446 | 4,996 |
| White-washing and constructing a fence round Singanallurhalli shed .. | 10 | Other works, A-VII (*c*) .. .. .. | .. | .. | 150 |
| White-washing and cleaning Range office and Range quarters and outhouses at Kollegal .. .. .. | 16 | | | | |
| White-washing and retiling rest-house at Hanur .. .. .. .. | 15 | | | | |
| White-washing, cleaning, &c., the rest-house at Ramapuram .. .. | 10 | | | | |
| White-washing, cleaning, &c., the rest-house at Cowdalli .. .. .. | 10 | | | | |
| Roofing the sandalwood depôt at Bhavání .. .. .. .. .. | 122 | | | | |
| White-washing the tanna shed at Bhavání and retiling .. .. .. | 24 | | | | |
| White-washing the Range quarters at Bhavání and retiling .. .. .. | 15 | | | | |
| White-washing the tanna shed at Andiyur .. .. .. .. .. | 15 | | | | |
| White-washing the tanna shed at Neringipett .. .. .. .. | 15 | | | | |
| Repairing the roof, retiling, &c., of the rest-house at Bhavání .. .. | 77 | | | | |
| Pay of bungalow watchers .. .. | 36 | | | | |
| Total .. | 550 | Total .. | 46 | 4,446 | 5,146 |

dynamite, Rs. 146-5-0.
of dynamites.

Communications

| District. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new work. |
| | Description of buildings. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Southern* |
| | | Rs. | | Mls. | Rs. | Rs. |
| Coimbatore (South). | Inspection shed at Periakombu. | 200 | Extension of the tramway .. | 2 furlgs. | 16 | .. |
| | Do. at Kallapuram. | 200 | Construction of an approach to the Punachi rest-house on the north side .. .. .. | .. | 74 | .. |
| | Construction of temporary sheds at Mount Stuart for peons .. | 41 | | | | |
| | District Forest-officer's rest-house at Punachi .. .. | 825 | Construction of an approach to the Punachi rest-house on the south side .. .. .. | | | |
| | Range quarters at Méttupálaiyam .. .. .. .. | 241 | Construction of Sethumadai-Tekadi road for export of forest produce .. .. .. | .. | 23 | .. |
| | | | Re-opening an old abandoned traced right of way through the waterfall estates beyond Punachi towards Puralai 109 chains or 1 mile 3 furlongs .. | .. | * .. | .. |
| | | | Cutting a continuation of this trace towards Puralai 190 chains or 2 miles and 3 furlongs .. | .. | .. | .. |
| | | | For opening a road to land applications on the Anamalais .. | | | |
| | | | Contribution to the Local Fund Department on account of the Anamalai-Sethumadai road .. | .. | 2,385 | .. |
| | Total .. | 1,507 | Total .. | .. | 2,498 | 4,005 |
| Madura .. | High waving rest-house .. | 96 | .... | .. | .. | .. |
| | Kitchen and stable to Machur rest-house .. .. .. | 247 | .... | .. | .. | .. |
| | Rest-house at Pachalur .. | 176 | .... | .. | .. | .. |
| | Total .. | 519 | Total .. | .. | .. | 519 |
| Tinnevelly .. | Line of forest guard's and watcher's line of huts at Courtallam .. .. .. .. | 240 | Tracing road between Kannikatti and Kalemlapil to frame estimate .. .. .. .. | 3 | 39 | .. |
| | Line of forest guard's and watcher's line of huts at Karuppasamicoil .. .. .. | 240 | Bridlepath from Kirisade to Mudaliarutha to open interior hills .. .. .. .. | 1 | 478 (part cost). | .. |

* The amount spent has not been
† Cash recovery of certain excess

and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle*—cont. | | | | | |
| | RS. | | MLS. | RS. | RS. |
| Sheds at Anaipadi .. .. .. | 111 | Bridle-path leading to Mount Stuart .. | .. | 27 | .. |
| District Forest-officer's bungalow at Sethumadai .. .. .. .. | 46 | Tram road .. .. .. .. .. | 5 | 104 | .. |
| District Forest-officer's rest-house at Anamalais .. .. .. .. | 382 | Timber slip .. .. .. .. .. | .. | 450 | .. |
| White-washing Range-officer's quarters at Mount Stuart .. .. .. | 3 | Ghaut road .. .. .. .. .. | .. | 629 | .. |
| Forester's quarters at Anaipadi .. | 65 | Road from the limits of the forests to the foot of the ghaut in Pollachi range .. | .. | 26 | .. |
| Range-officer's quarters at Navakarai. | 37 | Noyil bridge in Bolampatti .. .. | .. | 8 | .. |
| Guards and peons' sheds at do. | 29 | Sungam-Tellikal road .. .. .. | .. | 110 | .. |
| Buildings at Iruttupallam .. .. | 56 | Bridges near Pungan, Kadavu and Sudukattupallam .. .. .. .. | .. | 26 | .. |
| District Forest-officer's rest-house at Mount Stuart .. .. .. .. | 59 | Peruvarikolam road .. .. .. | .. | 85 | .. |
| Punachi Range-officer's rest-house .. | 208 | Repair of the Punachi ghaut road .. | .. | 590 | .. |
| Depôt building at Pollachi .. .. | 66 | | | | |
| Buildings at Mount Stuart and Anaipadi .. .. .. .. .. | 83 | | | | |
| Sign board for the Punachi rest-house. | 2 | Repair of the bridge No. I on the road from Sethumadai .. .. .. .. | .. | 3 | .. |
| Repairs to buildings at Sethumadi to the Range officer's quarters at Méttupálaiyam, &c. .. .. | 10 | Clearing paths leading to Andiparai, Kavarkal, Karumalai, &c. .. .. .. | .. | 76 | .. |
| Deduct as per Accountant-General's statement .. .. .. .. | † —16 | Deduct as per Accountant-General's statement .. .. .. .. .. | .. | † —62 | .. |
| | | | 5 | 2,122 | 3,263 |
| | | Other works, A-VII (*c*) .. | .. | .. | 60 |
| Total .. | 1,141 | Total .. | 5 | 2,122 | 3,323 |
| Theni rest-house kitchen—Dismantling and tiling roof; replacing jungle wood rafters by teak; plastering outside walls with chunam; doors and windows of better planks .. .. | 34 | .... | .. | .. | .. |
| CUMBUM RANGE. | | | | | |
| *Quarters.* | | | | | |
| Erection of brick walls for bamboo mat walls on the front verandah with doors and windows, brick-flooring and white-washing .. .. .. | 256 | | | | |
| White-washing Range office and quarters and tar-coating at the base .. | .. | | | | |
| Cumbum rest-house kitchen and table. | 50 | | | | |
| Plastering walls with chunam and replacing corners with burnt bricks and polishing walls .. .. .. | .. | Road from Cumbum village to range compound .. .. .. .. .. | .. | 6 | .. |
| Cumbum forest station .. .. | 73 | | | | |
| Knocking down the corners and building with burnt bricks .. .. | .. | | | | |
| Sundries such as pay of care-takers, &c. | 143 | | | | |
| Balasamudram Forester's quarters .. | 198 | Putting up washed away portion of the revetment of the road leading from Gundanshola to compartment I .. | .. | 24 | .. |
| Sundries such as pay of care-takers, &c. | | | | | |
| Forest lines, Tandigudi—Repairs to roofing; sundries, such as pay of care-takers, &c. .. .. .. | 83 | | | | |
| Ranger's quarters—Repairing basement-wall by fresh plastering; sundries, such as pay of care-takers, &c. | 80 | Alagar hill ghat road repairs—Clearing slips and side and cross draws .. .. | 4 | 178 | .. |
| Deduct as per Accountant-General's statement Form No. 59 .. .. | — 37 | | | | |
| | | | 4 | 208 | 1,088 |
| | | Other works .. | .. | .. | 154 |
| Total .. | 880 | Total .. | 4 | 208 | 1,242 |
| Sundry repairs to Mendanthurai bungalow .. .. .. .. .. | 36 | Filling inruts in Kottan teri road .. | 8 | 199 | .. |
| Sundry repair to Mendanthurai outhouse .. .. .. .. .. | 22 | Metalling road leading to Courtallum bungalow .. .. .. .. .. | .. | 25 | .. |

adjusted during the year.
payments for works done in previous years.

| District. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new work. |
| | Description of buildings. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Southern* |
| | | Rs. | | Mls. | Rs. | Rs. |
| Tinnevelly—*cont.* | Rest-house with out-house at Kansapuram (partly constructed) .. .. .. | 761 | New Papanasam road .. .. | 2½ | 304 (part cost). | .. |
| | Rest-house with out-house at Chettimadum (partly constructed) .. .. .. | 680 | Approach to Puliangudi rest-house .. .. .. .. | .. | 50 | .. |
| | Rest-house with out-house at Puliangudi (completed) .. | 786 | Conversion of Kallam Revenue survey line into bridlepath to open communications to coupes. | 1 | 99 | .. |
| | Depôt shed at Sevanapeli .. | 93 | Bridlepath on the Sivasailam hills from the Revenue survey line | | | |
| | A tannah shed at Panbuli .. | 50 | to the fire-wood coupes .. | 2½ | 500 | .. |
| | Fencing compound to Rudupatti-rest-house .. .. .. | 50 | | | | |
| | Fencing compound to Chettimadam .. .. .. .. | 25 | | | | |
| | Separate office at Kudianallur .. | 200 | | | | |
| | Total, Tinnevelly .. | 3,125 | Total, Tinnevelly .. | 10 | 1,470 | 4,595 |
| | Total, Southern Circle .. | 12,379 | Total, Southern Circle .. | .. | 5,637 | 18,016 |
| | Grand Total, Presidency .. | 25,228 | Grand Total, Presidency .. | .. | 12,316 | 37,544 |

and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle*—cont. | | | | | |
| | Rs. | | MLS. | Rs. | Rs. |
| Rethatching Sengalmuri Forest guard's hut .. .. .. .. .. | 20 | Metalling road leading to Kadianallur .. | .. | 23 | .. |
| Sundry repairs to Ranagudi tannah .. | 18 | Filling in ruts and sundry repairs to Pápanásum ghat road .. .. .. | 15 | 777 | .. |
| White-washing Vullanad rest-house .. | 3 | Filling in ruts and sundry repairs to new Pápanásum road .. .. .. .. | .. | 377 | .. |
| Rethatching Kopparai do. .. | 14 | Filling in ruts and sundry repairs to Pápanásum bridle-path .. .. .. | 3 | 45 | .. |
| Retiling and sundry repairs to Vasudevanallur bungalow .. .. .. | 125 | Sundry repairs to Rajapaliem bridle-path. | 5 | 89 | .. |
| Rethatching Ollar bungalow .. .. | 20 | Widening Kunsapuram kunsadi bridle-path .. .. .. .. .. | 9 | 132 | .. |
| Sundry repairs to Kolundumamalai tannah .. .. .. .. .. | 10 | Sundry repairs to Athithondu-Puliyuthu road .. .. .. .. .. | 6 | 21 | .. |
| Rethatching, &c., Paliar rest-house .. | 25 | Filling in ruts, &c., in Konamadi road .. | 7 | 280 | .. |
| Do. Budatharkoil rest-house .. .. .. .. .. | 25 | Do. do. in bridle-path from Muthulamppan to Karumpandiammansholai .. .. .. .. | 7 | 106 | .. |
| Rethatching, &c., Tharvithanparai rest-house .. .. .. .. | 13 | Filling road from Sivanajeri to Muthalaruppam .. .. .. .. .. | 3 | 133 | .. |
| Sundry repairs to Sivasailam bungalow .. .. .. .. .. | 45 | Filling ruts in Kamthalipudai road .. | 3 | 100 | .. |
| Rethatching and building walls of stable at Kanukatti .. .. .. | 47 | Do. in Nadugani bridle-path .. | 7 | 58 | .. |
| Rethatching Kanuru upper bungalow. | 16 | Metalling road between Kikrama—Sengapuram and Pápanásam .. .. .. | .. | 72 | .. |
| Do. Eral hut .. .. .. | 10 | Filling in ruts in Sengalamari-Kaluthaikadanu road .. .. .. .. | 2½ | 75 | .. |
| Rethatching Kannikatti lower bungalow .. .. .. .. .. | 20 | Filling in ruts in Puliargudi melaparai road .. .. .. .. .. | 3 | 100 | .. |
| Rethatching tannah at Vikrimasingapuram .. .. .. .. .. | 10 | Sundry repairs to Tekam Teri road .. | 1 | 30 | .. |
| Rethatching tannah at Pápanásam .. | 10 | Do. to Puckle's road .. .. | 3 | 50 | .. |
| Retiling and sundry repairs to Kadianallur bungalow .. .. .. | 250 | Do. to Shermadevi road .. | 2 | 90 | .. |
| Retiling and sundry repairs to Ambásamudram bungalow .. .. .. | 71 | Revetment in Vadagarai-Nalliyuthu road. | 3 | 109 | .. |
| Retiling and sundry repairs to Courtallam bungalow .. .. .. | 77 | Sundry repairs to Puliyangudi base line road .. .. .. .. .. | 1 | 39 | .. |
| Sundry repairs to Virisadi rest-house. | 2 | Sundry repairs to Kadianallur bridle-path .. .. .. .. .. | 5 | 187 | .. |
| Do. to stable and out-house to Courtallam bungalow .. .. | 20 | Filling in ruts in Kadiam bridle-path .. | 2½ | 75 | .. |
| Rethatching, &c., Sengalmuri rest-house .. .. .. .. .. | 25 | | 23 | 3,192 | 4,310 |
| Plastering Pulikunnuthu forest guard's hut .. .. .. .. | 25 | Other works, A-VII (*c*) .. | .. | .. | 107 |
| Plastering Rappakarai forest guard's hut .. .. .. .. .. | 24 | | | | |
| Plastering and re-roofing tannah at Athithondu .. .. .. .. | 32 | | | | |
| Sundry repairs to forest guard's line of hut at Athithondu .. .. .. | 8 | | | | |
| Retiling and sundry repairs to Sivanaferi bungalow .. .. .. .. | 45 | | | | |
| Sundry repairs to Sengal Teri rest-house .. .. .. .. .. | 5 | | | | |
| Sundry repairs at Muthalaruppan .. | 2 | | | | |
| White-washing and repairing Nazareth bungalow .. .. .. | 23 | | | | |
| Sundry repairs to forest guards' huts at Karuppasami coil .. .. .. | 20 | | | | |
| Total, Tinnevelly .. | 1,118 | | 23 | 3,192 | 4,417 |
| Total, Southern Circle .. | 5,802 | | .. | 11,706 | 19,435 |
| Grand Total, Presidency .. | 15,880 | | .. | 15,997 | 34,539 |

## ANNUAL FORM No. 50.

*Forest Department, Madras Presidency.*

PROSECUTIONS for breaches of Forest Rules during 1895–96.

| Districts. | Cases pending from 1894–95. | NEW CASES OF THE YEAR. | | | | | Total cases. | DISPOSED OF DURING THE YEAR. | | | | | | | | | | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire. | Unauthorised felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. | | Acquittals. | | Compounded. | | Withdrawn. | | Total. | | |
| | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | | | | | | | | | | | | | | | | | | |
| Ganjám .. .. .. | 52 | 1 | 244 | 39 | 15 | 299 | 351 | 122 | 319 | 30 | 178 | 111 | 306 | 68 | 223 | 331 | 1,026 | 20 |
| Vizagapatam .. .. .. | * 11 | .. | 278 | 12 | 2 | 292 | 303 | 112 | 421 | 6 | 26 | 145 | 435 | 10 | 21 | 273 | 903 | 30 |
| Gódávari .. .. .. | † 29 | 7 | 96 | 11 | 23 | 137 | 166 | 56 | 121 | 23 | 56 (a) 28 | 39 | 102 | 17 | 45 | 135 | 352 | 31 |
| Kistna .. .. .. | 278 | 1 | 299 | 351 | 93 | 744 | 1,022 | 158 | 516 | 60 | 200 (a) 73 | 380 | 1,117 | 115 | 578 | 713 | 2,484 | 309 |
| Kurnool .. .. .. | 103 | 1 | 403 | 150 | 57 | 611 | 714 | 241 | 552 | 113 | 279 (a) 70 | 189 | 523 | 81 | 182 | 624 | 1,606 | 90 |
| Bellary .. .. .. | 13 | 1 | 395 | 86 | 26 | 508 | 521 | 115 | 230 | 11 | 20 | 315 | 789 | 9 | 28 | 450 | 1,067 | 71 |
| Anantapur .. .. .. | 7 | 1 | 94 | 153 | 23 | 271 | 278 | 136 | 436 | 41 | 197 (a) 43 | 90 | 270 | 2 | 5 | 269 | 951 | 9 |
| Total .. | 493 | 12 | 1,809 | 802 | 239 | 2,862 | 3,355 | 940 | 2,595 | 284 | 1,170 | 1,269 | 3,542 | 302 | 1,082 | 2,795 | 8,389 | 560 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Cuddapah .. .. .. | 41 | 4 | 264 | 345 | 9 | 622 | 663 | 286 | 651 | 51 | 188 | 130 | 510 | 93 | 219 | 560 | 1,568 | 103 |
| Nellore .. .. .. | 35 | .. | 77 | 76 | 6 | 159 | 194 | 98 | 258 | 26 | 88 (a) 37 | 20 | 65 | 30 | 118 | 174 | 566 | 20 |
| Chingleput .. .. .. | 24 | .. | 260 | 156 | 32 | 448 | 472 | 55 | 138 | 14 | 55 (a) 20 | 340 | 638 | 43 | 103 | 452 | 954 | 20 |
| North Arcot .. .. | 88 | 1 | 324 | 355 | 43 | 723 | 811 | 137 | 351 | 38 | 130 | 513 | 1,242 | 60 | 166 | 748 | 1,889 | 63 |
| South Arcot .. .. .. | 215 | 2 | 636 | 381 | 73 | 1,092 | 1,307 | 165 | 430 | 32 | 162 | 748 | 2,037 | 106 | 355 | 1,051 | 2,984 | 256 |
| Salem .. .. .. | † 94 | 13 | 521 | 516 | 78 | 1,128 | 1,222 | 540 | 1,555 | 124 | 495 (a) 60 | 437 | 1,319 | 73 | 158 | 1,174 | 3,587 | 48 |
| Trichinopoly .. .. | 63 | .. | 106 | 346 | 14 | 466 | 529 | 135 | 356 | 26 | 82 (a) 15 | 239 | 829 (a) 42 (b) 3 | 3 (c) 46 | 53 (a) 1 | 449 | 1,381 | 80 |
| Tanjore .. .. .. | 14 | .. | 41 | 15 | 3 | 59 | 73 | 20 | 57 | 6 | 15 (a) 1 | 36 | 112 (a) 26 | 6 | 43 | 68 | 254 | 5 |
| Total .. | 574 | 20 | 2,229 | 2,190 | 258 | 4,697 | 5,271 | 1,436 | 3,796 | 317 | 1,348 | 2,463 | 6,823 | 460 | 1,216 | 4,676 | 13,183 | 595 |

* Erroneously shown as 90 in the last year's return. Seventy-nine out of the 90 were only occurrence reports which have been ordered to be dropped. † Now reported by the Collector.

(a) Concerned in cases convicted. (b) Concerned in cases acquitted. (c) The offenders were not caught and so no further steps were taken.

## Prosecutions for breaches of Forest Rules during 1895-96—*cont.*

| Districts. | Cases pending from 1894-95. | New cases of the year. | | | | | Total cases. | Disposed of during the year. | | | | | | | | | | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire. | Unauthorised felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. | | Acquittals. | | Compounded. | | Withdrawn. | | Total. | | |
| | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | |
| South Canara .. .. | 81 | 5 | 224 | 12 | 134 | 375 | 456 | 146 | (c) 207 | 56 | 112 (a) 20 | 87 | 149 | 18 | 24 (b) 6 (a) 1 | 307 | 519 | 149 |
| North Malabar .. .. | 18 | 4 | 33 | 4 | 18 | 59 | 77 | 24 | 53 | 13 | 27 (a) 5 | 23 | 39 (a) 2 | 8 | 20 | 68 | 146 | 9 |
| South Malabar .. .. | 2 | 1 | 13 | .. | 32 | 46 | 48 | 28 | 64 | 5 | 6 | 7 | 27 | 1 | 1 | 41 | 98 | 7 |
| Nilgiris .. .. .. | 14 | 1 | 55 | 29 | 12 | 97 | 111 | 27 | 77 | 6 | 15 | 54 | 180 | 9 | 27 | 96 | 299 | 15 |
| North Coimbatore .. .. | 32 | .. | 120 | 165 | 18 | 303 | 335 | 153 | 495 (d) 1 | 24 | 79 (a) 38 | 101 | 294 (a) 1 | 33 | 84 (a) 12 | 311 | 1,004 | 24 |
| South Coimbatore .. .. | 18 | 6 | 69 | 72 | 16 | 163 | 181 | 40 | 162 | 13 | 76 | 97 | 337 | 9 | 69 | 159 | 644 | 22 |
| Madura .. .. .. | 55 | 41 | 142 | 263 | 13 | 459 | 514 | 214 | 598 | 47 | 137 | 56 | 217 | 56 | 118 | 373 | 1,070 | 141 |
| Tinnevelly .. .. .. | 78 | 4 | 236 | 292 | 17 | 549 | 627 | 58 | 141 | 31 | 115 (a) 17 | 374 | 986 | 113 | 221 | 576 | 1,480 | 51 |
| Total .. | 298 | 62 | 892 | 837 | 260 | 2,051 | 2,349 | 690 | 1,798 | 195 | 647 | 799 | 2,282 | 247 | 583 | 1,931 | 5,260 | 418 |
| Grand Total .. | 1,365 | 94 | 4,930 | 3,829 | 757 | 9,610 | 10,975 | 3,066 | 8,189 | 796 | 3,165 | 4,531 | 12,597 | 1,009 | 2,881 | 9,402 | 26,832 | 1,573 |

(a) Concerned in cases convicted.
(b) Concerned in cases acquitted.
(c) One accused who died, omitted from the number.
(d) Concerned in cases compounded.

## ANNUAL FORM No. 51.

*Forest Department, Madras Presidency.*

**AREA of Forest Tracts protected from Fire during 1895–96.**

| District. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 30th June 1895 | During dry season of 1895–96. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | *Northern Circle.* | | ACS. | ACS. | ACS. | ACS. | RS. | |
| Ganjám .. | .... | .. | 134,609 | (a) 136,921 | 7,045 | 129,876 | 1,367 | (a) Three blocks of an aggregate area of 919 acres were abandoned during the year. |
| Vizagapatam... | .... | .. | 50,343 | 50,383 | 6,874 | 43,509 | 464 | |
| Gódávari— Special .. | Dummagudem reserve .. | 1887 .. | 6,035 | 6,110 | 154 | 5,956 | 112 | |
| | Arlagudem do. .. | 1888 .. | 5,149 | 6,136 | 19 | 6,117 | 140 | |
| | Gogubaka do. .. | 1887 .. | 1,666 | 1,666 | .. | 1,666 | 44 | |
| | Repak do. .. | 1887 .. | 6,860 | 7,000 | 1,130 | 5,870 | 142 | |
| | Ramachendram do. .. | 1887 .. | 10,285 | 10,300 | 224 | 10,076 | 136 | |
| | Tallanka do. .. | 1887 .. | 10,608 | 12,000 | 552 | 11,448 | 154 | |
| | Mattapalli do. .. | 1889 .. | 8,325 | 9,500 | 900 | 8,600 | 215 | |
| | Total, Special, Gódávari.. | .. | 48,928 | 52,712 | 2,979 | 49,733 | 943 | |
| General .. | .... | .. | 82,983 | 86,255 | 1,780 | 84,475 | 704 | |
| | Total, Gódávari .. | .. | 131,911 | 138,967 | 4,759 | 134,208 | 1,647 | |
| Kistna— Special .. | Kondapalli reserve .. | 1884 .. | 6,971 | 5,261 | 450 | 4,811 | 1,163 | |
| | Kothur do. .. | 1889 .. | 1,310 | 1,310 | .. | 1,310 | | |
| | Gunadala do. .. | 1895 .. | 400 | 400 | .. | 400 | | |
| | Kondavid do. .. | 1888 .. | 4,200 | 4,200 | 16 | 4,184 | | |
| | Bollapalli do. .. | 1885 .. | 20,627 | 20,700 | 2,850 | 17,850 | | |
| | Mutukur do. .. | 1885 .. | 21,828 | 24,840 | 8,000 | 16,840 | | |
| | Pasvemula do. .. | 1892 .. | 6,152 | 10,158 | 5,000 | 5,158 | | |
| | Venkatayapalem do. .. | 1894 .. | 15,388 | 18,603 | 5,000 | 13,603 | | |
| | Total, Special, Kistna .. | .. | 76,876 | 85,472 | 21,316 | 64,156 | 1,163 | |
| General .. | .... | .. | 1,147 | 84,383 | 4,037 | 80,346 | .. | |
| | Total, Kistna .. | .. | 78,023 | 169,855 | 25,353 | 144,502 | 1,163 | |
| Kurnool .. | .... | .. | 50,304 | 73,055 | 17,118 | 55,937 | 2,457 | |
| Bellary— Special .. | Sandur Ramandrug range. | 1883 .. | 12,785 | 14,785 | 75 | 14,710 | 1,589 | |
| | Do. north-east do. | 1883 .. | 13,094 | 16,010 | 5,466 | 10,544 | 1,100 | |
| | Donimalai .. .. | 1883 .. | 9,205 | 9,205 | 1,459 | 7,746 | 1,117 | |
| | Shivapuram .. .. | 1886-87 .. | 9,000 | 9,000 | 650 | 8,350 | 141 | |
| | Sunkadakallu .. .. | 1886-87 .. | 7,000 | 7,000 | .. | 7,000 | 130 | |
| | Malpanagudi .. .. | 1886-87 .. | 1,000 | 1,066 | 270 | 796 | 81 | |
| | Chiribi .. .. | 1885-86 .. | 3,000 | 3,000 | | 3,000 | 83 | |
| | Total, Special, Bellary .. | . | 55,084 | 60,066 | 7,920 | 52,146 | 4,241 | |
| General .. | .... | .. | 18,639 | 13,574 | 1,200 | 12,374 | 90 | |
| | Total, Bellary .. | .. | 73,723 | 73,640 | 9,120 | 64,520 | 4,331 | |
| Anantapur .. | .... | .. | 153,146 | (b) 123,805 | 10,390 | 113,445 | 2,450 | (b) The fire-protected area during 1894–95 has been considerably curtailed this year by omitting certain of the less important reserves as the area attempted to be protected was found too large to be properly controlled. |
| | Total, Special, Northern Circle. | .. | 180,888 | 198,250 | 32,215 | 166,035 | 6,347 | |
| | Total, General, Northern Circle. | .. | 491,171 | 568,406 | 48,444 | 519,962 | 7,532 | |
| | Grand Total, Northern Circle. | .. | 672,059 | 766,656 | 80,659 | 685,997 | 13,879 | |
| | *Central Circle.* | | | | | | | |
| Cuddapah .. | .... | .. | 457,957 | 528,020 | 38,872 | 489,148 | 4,545 | |
| Nellore .. | .... | .. | 115,460 | 115,720 | 2,110 | 113,610 | 679 | |
| Chingleput.. | Kambakkam reserved forests. | 1883-84 .. | 14,951 | 14,951 | 400 | 14,551 | 373 | |
| | Nágalápuram reserved forests. | 1883-84 .. | 8,345 | 8,345 | 32 | 8,313 | 166 | |
| | Pulrambakkam reserved forests. | 1883-84 .. | 507 | 577 | .. | 577 | .. | |
| | Total, Special, Chingleput. | .. | 23,803 | 23,873 | 432 | 23,441 | 539 | |

## Area of Forest Tracts protected from Fire during 1895-96—*cont.*

| District. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 30th June 1895. | During dry season of 1895-96. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | *Central Circle*—cont. | | ACS. | ACS. | ACS. | ACS. | RS. | |
| North Arcot— | Special protection. | | | | | | | |
| Polur | Karnatic Ghur | 1881 | 7,069 | 7,069 | 82 | 6,987 | 324 | |
| | Malayalam | 1887 | 10,947 | 11,462 | 784 | 10,678 | 75 | |
| | Kolur | 1884 | 2,866 | 2,866 | .. | 2,866 | 23 | |
| | Paruvadamalai | 1892 | 4,000 | 4,000 | 165 | 3,835 | 15 | |
| | Malacod | 1890 | 16,802 | 16,802 | 527 | 16,275 | 93 | |
| | Periamalai | 1892 | 5,357 | 5,357 | 830 | 4,527 | 55 | |
| | Santavasal | 1890 | 7,788 | 8,238 | 120 | 8,118 | 45 | |
| | Veerappanur | 1886 | 64,000 | 64,000 | .. | 64,000 | 60 | |
| Vellore | Ambur fuel | 1879 | 3,720 | 3,840 | .. | 3,840 | 156 | |
| | Vellakal | 1889 | 4,569 | 5,273 | 520 | 4,753 | 82 | |
| | Palamadi | 1880 | 5,872 | 6,400 | 415 | 5,985 | 187 | |
| | Arasampet | 1887 | 30,768 | 31,480 | 1,468 | 30,012 | 138 | Includes also a part of Polur taluk. |
| | Nellimalay | 1892 | 1,490 | 1,490 | .. | 1,490 | 37 | |
| | Karuthamalai | 1882 | 11,980 | 11,856 | 265 | 11,591 | 182 | |
| | Ambur extension | 1887 | 24,045 | 24,885 | 643 | 24,242 | 100 | |
| | Kylasagiri | 1892 | 1,195 | 1,195 | 900 | 295 | 76 | |
| Chendragiri. | Napier reserve | 1880 | 8,380 | 8,380 | .. | 8,380 | 215 | |
| | Mamandur and its extension | 1874 / 1888 | 9,676 | 9,776 | 800 | 8,976 | 159 | |
| | Chamala | 1880 | 8,700 | 9,600 | 200 | 9,400 | 136 | |
| | Panapakam | 1880 | 6,380 | 6,400 | .. | 6,400 | 81 | |
| | Pudipatlabylu | 1880 | 2,548 | 2,560 | .. | 2,560 | 15 | |
| | Tirupati Hill | 1868 | 15,550 | 16,000 | 500 | 15,500 | 101 | |
| | Tirupati Hill extension | 1891 | 5,680 | 5,840 | 5 | 5,835 | 110 | |
| | Nagapatla | 1890 | 7,866 | 8,266 | . | 8,266 | 91 | |
| | Mungilpattu | 1890 | 22,200 | 22,700 | 50 | 22,650 | 76 | |
| | Panapakam extension | 1892 | 9,730 | 9,730 | .. | 9,730 | 27 | |
| Palmanér. | Musalimadugai | 1884 | 8,534 | 9,600 | 1,600 | 8,000 | 188 | |
| | Palmanér | 1892 | 1,920 | 1,920 | .. | 1,920 | 199 | |
| | Mordana | 1884 | 12,376 | 12,416 | 750 | 11,666 | 40 | |
| Gudiyáttam. | Mordana | 1884 | 10,910 | 11,000 | 180 | 10,820 | 68 | |
| | Gundlakalle | 1891 | 8,018 | 8,418 | .. | 8,418 | 9 | |
| | Do. extension | 1894 | 800 | 800 | .. | 800 | 5 | |
| | Naickaneri | 1884 | .. | 3,200 | 310 | 2,890 | 28 | |
| Wallajah. | Mordana extension | 1887 | 9,423 | .. | .. | .. | 39 | |
| | Banavaram | 1880 | 1,047 | 1,051 | 4 | 1,047 | 7 | |
| | Ammar | 1884 | 5,982 | 5,982 | 88 | 5,894 | 56 | |
| | Total, Special, North Arcot | .. | 358,188 | 359,852 | 11,206 | 348,646 | 3,298 | |
| | Total, General, do. | .. | 326,354 | 363,594 | 8,282 | 355,312 | 666 | |
| | Total, North Arcot | .. | * 684,542 | 723,446 | 19,488 | 703,958 | 3,964 | |
| South Arcot | .... | .. | 119,120 | 96,406 | 1,917 | 94,489 | 608 | |
| Salem | .... | .. | 38,409 | 40,507 | 1,437 | 39,070 | 2,128 | |
| Trichinopoly | .... | .. | 82,376 | 82,681 | 500 | 82,181 | 32 | |
| Tanjore | .... | .. | .. | .. | .. | .. | .. | |
| | Total, Special, Central Circle. | .. | 381,991 | 383,725 | 11,638 | 372,087 | 3,837 | |
| | Total, General, Central Circle. | .. | 1,139,676 | 1,226,928 | 53,118 | 1,173,810 | 8,658 | |
| | Grand Total, Central Circle | .. | 1,521,667 | 1,610,653 | 64,756 | 1,545,897 | 12,495 | |
| | *Southern Circle.* | | | | | | | |
| South Canara. | .... | .. | 21,898 | 41,384 | 480 | 40,904 | 906 [a] | |
| | Special protection. | | | | | | | |
| Malabar, North. | Begur | 1882-83 | .. | 15,366 | 1,085 | 14,281 | 837 | |
| | Tirunelli | 1894-95 | 2,737 | 5,474 | .. | 5,474 | | |
| | Kurchyat | 1887-88 | 12,054 | 18,054 | 17,854 | 200 | 493 | |
| | Mavanhulla | 1894-95 | 10,776 | 12,576 | 11,976 | 600 | | |
| | Rampur | 1894-95 | 9,854 | 18,854 | 18,134 | 720 | | |
| | Kanotte teak, &c., plantations | 1894-95 | 224 | 224 | .. | 224 | 8 | |
| | Total, Special, North Malabar. | .. | 34,945 | 76,548 | 49,049 | 21,499 | 1,338 | |
| | Total, General, North Malabar. | .. | 44,179 | 24,812 | 13,889 | 10,923 | .. | |
| | Total, North Malabar | .. | 79,124 | 95,360 | 62,938 | 32,422 | 1,338 | |

* Revised figure.

## Area of Forest Tracts protected from Fire during 1895-96—*cont.*

| District. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 30th June 1895. | During dry season of 1895-96. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | *Southern Circle*—cont. | | ACS. | ACS. | ACS. | ACS. | RS. | |
| | Special protection. | | | | | | | |
| Malabar, South. | Amarampalem reserve .. | 1860-61 .. | 468 | 468 | .. | 468 | 81 | |
| | Chathomporai do. .. | 1872-73 .. | 700 | 700 | .. | 700 | 63 | |
| | Teak plantations .. .. | 1842-43 .. | 3,403 | 3,403 | .. | 3,403 | 730 | |
| | Karimpoya reserve .. | 1884-85 .. | 3,955 | 3,955 | .. | 3,955 | 100 | |
| | Nellicutta do. .. | 1883-84 .. | 1,824 | 1,824 | .. | 1,824 | 140 | |
| | New Amarampalam forest. | 1889-90 .. | 75,000 | 75,000 | 100 | 74,900 | 300 | |
| | Walayar reserve .. .. | 1873-74 .. | 3,017 | 3,017 | .. | 3,017 | 540 | |
| | Chenant Nair reserve .. | 1884-85 .. | 14,583 | 15,203 | .. | 15,203 | 451 | |
| | Kampurattipotta reserve land. | 1891-92 .. | 124 | 124 | .. | 124 | 14 | |
| | Total, Special, South Malabar .. .. .. | .. | 103,074 | 103,694 | 100 | 103,594 | 2,419 | |
| Nilgiris .. | Mudumalai plantation .. | 1883 .. | .. | 25 | 1 | 24 | 507 | |
| | Benne teak do. .. | 1886 .. | 40 | 40 | .. | 40 | | |
| | Benne experimental block. | 1893 .. | 179 | 179 | 5 | 174 | | |
| | Marigudi block .. .. | 1888 .. | 3,600 | 4,480 | 5 | 4,475 | | |
| | Moyar reserved forest .. | 1886 .. | 3,350 | 4,000 | 1,000 | 3,000 | 301 | |
| | Northern Hay sandalwood plantation. | 1883 .. | 22 | 22 | 5 | 17 | | |
| | Chemmanguli .. .. | 1883 .. | 25 | 25 | .. | 25 | 313 | |
| | Aranakal .. .. .. | 1883 .. | 9 | 9 | .. | 9 | | |
| | Governor's shola No. I .. | 1883 .. | 25 | 25 | .. | 25 | | |
| | Do. No. II .. | 1883 .. | 30 | 30 | 2 | 28 | | |
| | Andy .. .. .. | 1883 .. | 17 | 17 | .. | 17 | | |
| | Uppatti .. .. .. | 1883 .. | 12 | 12 | .. | 12 | | |
| | Sheffield .. .. .. | 1883 .. | 25 | 25 | .. | 25 | | |
| | Cully .. .. .. | 1883 .. | 17 | 17 | .. | 17 | | |
| | Chought Cully .. .. | 1883 .. | 26 | 26 | .. | 26 | | |
| | Madanna .. .. .. | 1883 .. | 8 | 8 | .. | 8 | | |
| | Baikie .. .. .. | 1883 .. | 50 | 50 | .. | 50 | | |
| | Aramby .. .. .. | 1883 .. | 208 | 208 | 1 | 207 | | |
| | Marlimund .. .. | 1883 .. | 11 | 11 | .. | 11 | | |
| | Kairn Hill .. .. .. | 1883 .. | 105 | 105 | 1 | 104 | | |
| | Kallar reserve .. .. | 1883 .. | 911 | 919 | 38 | 881 | 801 | |
| | Barliyar do. .. .. | 1883 .. | 178 | 178 | 1 | 177 | | |
| | Ghât do. .. .. | 1883 .. | 247 | 247 | .. | 247 | | |
| | Coonoor peak .. .. | 1883 .. | 201 | 206 | .. | 206 | | |
| | Bandy shola .. .. | 1883 .. | 94 | 94 | .. | 94 | | |
| | Sim's Park block I .. | 1883 .. | 48 | 48 | .. | 48 | | |
| | Black bridge .. .. | 1883 .. | 42 | 42 | 2 | 40 | | |
| | Little Rallia .. .. | 1883 .. | 10 | 10 | .. | 10 | | |
| | Newman .. .. .. | 1883 .. | 35 | 35 | .. | 35 | | |
| | Rallia .. .. .. | 1883 .. | 60 | 60 | .. | 60 | | |
| | Longwood and Addition . | 1885 .. | 348 | 350 | .. | 350 | | |
| | Devashola .. .. .. | 1883 .. | 4 | 4 | .. | 4 | | |
| | Total, Special, Nilgiris .. | .. | 9,937 | 11,507 | 1,061 | 10,446 | 1,922 | |
| | Total, General, do. .. | .. | 71,723 | 71,723 | 1 | 71,722 | 151 | |
| | Add cost of protection of roads, buildings, camping grounds and bridges. | .. | .. | .. | .. | .. | 460 | |
| | Total .. | .. | *81,660 | 83,230 | 1,062 | 82,168 | 2,533 | |
| North Coimbatore. | Hassanur sandalwood compartment, Satyamangalam Range. | 1895-96 .. | .. | 5,648 | *Nil.* | 5,648 | 181 | |
| | Bylur sandalwood compartment, Kollegal Range. | 1895-96 .. | .. | 2,952 | *Nil.* | 2,952 | 303 | |
| | Oodiarpalliem sandalwood compartment, Kollegal Range. | 1895-06 .. | .. | 1,504 | *Nil.* | 1,504 | 209 | |
| | Gadathalai nulla .. .. | 1895-96 .. | .. | 235 | 15 | 220 | 61 | |
| | Total, Special, North Coimbatore. | .. | † .. | 10,339 | 15 | 10,324 | 754 | |

* Revised figure.

† Previous to the year under report Rs. 5,188 were spent chiefly on the protection of sandalwood areas and in order to have a completely fresstart the Collector has eliminated the previous year's figure as too misleading and confusing.

## Area of Forest Tracts protected from Fire during 1895-96—*cont.*

| District. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 30th June 1895. | During dry season of 1895-96. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | *Southern Circle*—cont. | | ACS. | ACS. | ACS. | ACS. | RS. | |
| | Special protection. | | | | | | | |
| South Coimbatore Special. | Tunacadavu Range .. | 1882-83 .. | 20,480 | 24,000 | 480 | 23,520 | 769 | |
| | Pollachi do. .. | 1888-89 .. | 9,702 | 9,775 | 100 | 9,675 | 496 | |
| | Udamalpet do. .. | 1883-84 .. | 485 | 485 | .. | 485 | 62 | |
| | Méttupálaiyam do. .. | 1891-92 .. | 230 | 230 | .. | 230 | 218 | |
| | Bolampatti do. .. | 1884-85 .. | 17,682 | 18,557 | 958 | 17,599 | 688 | |
| | Sholakhari .. .. .. | 1883-84 .. | 4,533 | 4,923 | 158 | 4,765 | 319 | |
| | Total, Special .. | .. | 53,112 | 57,970 | 1,696 | 56,274 | 2,552 | |
| | General .. .. .. | .. | .. | 358,977 | 1,420 | 357,557 | .. | |
| | Total, South Coimbatore .. | .. | 53,112 | 416,947 | 3,116 | 413,831 | 2,552 | |
| Madura .. | Kuttanachiar .. .. | 1891-92 .. | 440 | .. | .. | .. | .. | These blocks have never really been under special protection, "patrols" who were really *watchers* were employed but under no system and there are no fire lines; they are transferred to general protection below. |
| | Surlipati .. .. .. | 1891-92 .. | 5,760 | .. | .. | .. | .. | |
| | Pandarathorai .. .. | 1886-87 .. | 300 | .. | .. | .. | .. | |
| | Vannathiparai .. .. | 1884-85 .. | * 25,920 | 5,080 | 480 | 4,600 | 354 | |
| | Melagudalore .. .. | 1885-86 .. | 720 | 1,280 | 160 | 1,120 | 128 | |
| | Suranganar .. .. | 1885-86 .. | 2,686 | .. | .. | .. | .. | |
| | Machakal .. .. .. | 1886-87 .. | 2,360 | .. | .. | .. | .. | |
| | Amburuvi .. .. .. | 1886-87 .. | 6,400 | 6,400 | 200 | 6,200 | 107 | |
| | Combai .. .. .. | 1891-92 .. | 2,787 | .. | .. | .. | .. | |
| | Sengalvaraiar .. .. | 1885-86 .. | 4,608 | 4,608 | 300 | 4,308 | 98 | |
| | Karungal Dhonimedu .. | 1885-86 .. | 1,915 | 1,920 | .. | 1,920 | 41 | |
| | Pambar .. .. .. | 1883-84 .. | 2,943 | 4,243 | 500 | 3,743 | 111 | |
| | Murugamalai .. .. | 1884-85 .. | 6,422 | .. | .. | .. | .. | |
| | Pumbarai Vilputty valley. | 1885-86 .. | 13,572 | 13,587 | 1,505 | 12,082 | 263 | |
| | Oliyanuthu reserve .. | 1888-89 .. | 3,200 | 3,200 | 50 | 3,150 | 75 | |
| | Kukkal .. .. .. | 1886-87 .. | 19,406 | 19,706 | .. | 19,706 | 277 | |
| | Kudraiyar .. .. .. | 1886-87 .. | | | | | | |
| | Perumalmalai .. .. | 1886-87 .. | 7,286 | 7,386 | 400 | 6,986 | 18 | Expenditure small, as fires occurred all along the boundaries when the line clearing had only just been begun. |
| | Gundan shola .. {A .. | 1886-87 .. | 198 | 288 | .. | 288 | 141 | |
| | {B .. | 1886-87 .. | | | | | | |
| | Post office .. .. .. | 1886-87 .. | .. | .. | .. | .. | .. | These are not liable to fires and are omitted. |
| | Pumbarai .. .. .. | 1883-84 .. | 6 | .. | .. | .. | .. | |
| | Arankanal .. .. .. | 1883-84 .. | 1,916 | 1,920 | 500 | 1,420 | 85 | |
| | Kallar .. .. .. | 1885-86 .. | 9,367 | 9,600 | 250 | 9,350 | 146 | |
| | Sirumalai .. .. .. | 1885-86 .. | 21,485 | 21,785 | 200 | 21,585 | 280 | |
| | Kachakatti .. .. | 1884-85 .. | 1,744 | .. | .. | .. | .. | Do. |
| | Wahuthumalai .. .. | 1884-85 .. | 6,089 | 6,089 | 132 | 5,957 | 153 | |
| | Alagar Hill .. .. | 1882-83 .. | 16,838 | 16,838 | 150 | 16,688 | 478 | |
| | Keluvamalai .. .. | 1885-86 .. | 1,920 | .. | .. | .. | .. | Do. |
| | Perumalai .. .. .. | 1891-92 .. | 9,600 | 9,600 | 167 | 9,433 | 134 | These were really only under general protection before, but have had lines cleared this year. |
| | Karandamalais .. .. | 1887-88 .. | 21,943 | 22,077 | 3 | 22,074 | 181 | |
| | Mudimalai .. .. .. | 1884-85 .. | 4,435 | 4,435 | .. | 4,435 | 85 | |
| | Adukkam .. .. .. | 1895-96 .. | .. | 5,984 | 300 | 5,684 | 45 | These blocks which were under "special protection" were wrongly shown under "general protection" before; they have now been transferred to this head. |
| | Kanienkad .. .. | 1895-96 .. | .. | 2,560 | 200 | 8,453 | 88 | |
| | Vennelai .. .. .. | 1895-96 .. | .. | 6,093 | | | 82 | |
| | Maruthanathiar .. .. | 1895-96 .. | .. | 5,523 | 110 | 5,413 | 53 | |
| | Buthakudi .. .. .. | 1890-91 .. | 1,120 | 1,120 | .. | 1,120 | 14 | |
| | Pulamalai .. .. .. | 1890-91 .. | 800 | 800 | .. | 800 | 14 | |
| | Panjantangi .. .. | 1887-88 .. | 7,424 | .. | .. | .. | .. | This is not liable to fire and is omitted. |
| | Total, Special .. | .. | 211,610 | 182,122 | 5,607 | 176,515 | 3,451 | |
| | General .. .. .. | .. | 43,195 | 36,332 | 2,823 | 33,509 | 81 | |
| | Total, Madura .. | .. | † 254,805 | 218,454 | 8,430 | 210,024 | 3,532 | |

* The remarks against the above three blocks apply to the major portion of this block. The special protection that does exist affects only the area now shown in column 5. † Revised figures.

## Area for Forest Tracts protected from Fire during 1895-96—*cont.*

| District. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 30th June 1895. | During dry season of 1895-96. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | *Southern Circle*—cont. | | ACS. | ACS. | ACS. | ACS. | RS. | |
| | Special protection. | | | | | | | |
| Tinnevelly— | | | | | | | | |
| Ambásamudram. | Ghât forests Nos. II and II (*b*). | 1884-85 .. | 24,495 | 4,955 | 75 | 4,880 | 222 | |
| | Padarmalai working circle. | 1895-96 .. | .. | 3,045 | .. | 3,045 | 80 | |
| | Reserved forests No. II (*a*) | 1889-90 .. | 1,500 | 1,000 | 45 | 955 | 62 | |
| Nángunéri.. | Ghât forests Nos. I and I (*a*). | 1885-86 .. | 16,772 | 4,000 | 4 | 3,996 | 332 | |
| Tenkasi .. | Ghât forests Nos. III, III (*a*), (*b*), ($c^1$), ($c^2$), (*d*) and Chinnakadu. | 1887-88 .. | 7,366 | 3,100 | 40 | 3,060 | 510 | |
| Sankaranayinárkoil | Ghât forests Nos. IV and IV (*a*). | 1888-89 .. | 37,171 | 5,000 | .. | 5,000 | 125 | |
| Srívilliputtúr | Ghât forests Nos. V and V (*a*). | 1889-90 .. | 7,448 | 4,000 | 8 | 3,992 | 322 | |
| | Total, Special, Tinnevelly. | .. | 94,752 | 25,100 | 172 | 24,928 | 1,653 | |
| | General do. | .. | .. | 208,260 | 4,226 | 204,034 | 182 | |
| | Total, Tinnevelly .. | .. | 94,752 | 233,360 | 4,398 | 228,962 | 1,835 | |
| | Total, Southern Circle— | | | | | | | |
| | Special .. .. .. | .. | 507,430 | 461,280 | 57,700 | 403,580 | 14,089 | |
| | General .. .. .. | .. | 180,995 | 741,488 | 22,839 | 718,649 | 1,780 | |
| | Grand Total .. | .. | 688,425 | 1,202,768 | 80,539 | 1,122,229 | 15,869 | |
| | Total, Presidency— | | | | | | | |
| | Special .. .. .. | .. | 1,070,309 | 1,043,255 | 101,553 | 941,702 | 24,273 | |
| | General .. .. .. | .. | 1,811,842 | 2,536,822 | 124,401 | 2,412,421 | 17,970 | |
| | Grand Total, Presidency .. | .. | 2,882,151 | 3,580,077 | 225,954 | 3,354,123 | 42,243 | |

*Note.*—Where Collectors have not reported the figures separately for special areas they are shown under general.

## Form No. 52.

*Forest Department, Madras Presidency.*

### Area closed and open to grazing during 1895–96.

| District. | Area in square miles. | | | | | |
|---|---|---|---|---|---|---|
| | Closed to all animals. | | Closed to goats or sheep. | | Open to all animals. | Total area. |
| | Whole year. | Part of year. | Whole year. | Part of year. | Whole year. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Northern Circle.* | | | | | | |
| Ganjám .. .. .. .. .. .. | 123 | .. | (a) 436 | .. | .. | 559 |
| Vizagapatam .. .. .. .. .. | 4 | 27 | 415 | .. | .. | 415 |
| Gódávari .. .. .. .. .. | 302 | .. | 975 | .. | .. | 975 |
| Kistna .. .. .. .. .. | 144 | .. | 755 | .. | 313 | 1,212 |
| Kurnool .. .. .. .. .. | 114 | .. | 2,242 | .. | 2 | 2,244 |
| Bellary .. .. .. .. .. | 186 | .. | 356 | .. | 95 | 637 |
| Anantapur .. .. .. .. .. | 101 | 9 | (b) 407 | .. | .. | 517 |
| Total, Northern Circle .. | 974 | 36 | 5,586 | .. | 410 | 6,559 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. .. | 4 | .. | 2,353 | .. | .. | 2,357 |
| Nellore .. .. .. .. .. | 7 | .. | 631 | .. | (c) 23 | 661 |
| Chingleput .. .. .. .. .. | 38 | .. | (a) 190 | .. | 10 | 238 |
| North Arcot * .. .. .. .. | 64 | .. | 997 | .. | 70 | 1,131 |
| South Arcot .. .. .. .. .. | 17 | .. | (a) 762 | .. | .. | 779 |
| Salem .. .. .. .. .. .. | 60 | .. | 1,404 | .. | .. | 1,464 |
| Trichinopoly .. .. .. .. .. | 46 | .. | 187 | .. | .. | 233 |
| Tanjore .. .. .. .. .. | 2 | .. | 17 | .. | .. | 19 |
| Total, Central Circle .. | 178 | .. | 6,541 | .. | 103 | 6,382 |
| *Southern Circle.* | | | | | | |
| South Canara .. .. .. .. .. | 22 | .. | (a) 1,112 | .. | .. | 1,134 |
| Malabar, North .. .. .. .. | 28 | 24 | 115 | .. | 105 | 272 |
| Do. South .. .. .. .. | 328 | .. | 328 | .. | .. | 328 |
| Nilgiris .. .. .. .. .. | 11 | .. | (a) 452 | .. | .. | 452 |
| Coimbatore, North .. .. .. .. | 237 | .. | 1,480 | .. | .. | 1,717 |
| Do. South .. .. .. .. | 265 | .. | 657 | .. | .. | 657 |
| Madura .. .. .. .. .. | 5 | 24 | (a) 620 | .. | .. | 649 |
| Tinnevelly .. .. .. .. .. | 300 | 197 | (d) 428 | .. | 111 | 428 |
| Total, Southern Circle .. | 1,196 | 245 | 5,192 | .. | 216 | 5,637 |
| Grand Total .. | 2,348 | 281 | 17,319 | .. | 729 | 19,078 |

* Number of cattle and sheep admitted—

| | | |
|---|---|---|
| Cattle .. .. .. .. | 88,843 | Particulars for Rs. 714 collected by the Tahsildars are not available. |
| Sheep .. .. .. .. | 45,644 | |
| | 134,487 | |

(a) Closed to goats only.
(b) In ten square miles of this area sheep were admitted.
(c) Reserved for goats and sheep.
(d) Closed to goats only except eight square miles from which sheep were also excluded.

## Annual Form No. 53.

*Forest Department, Madras Presidency.*

## Area of Plantations, 1895–96.

| District. | Name of Plantations. | Area in acres. | | | | Receipts. | Charges. |
|---|---|---|---|---|---|---|---|
| | | On 1st July 1895. | Added during the year. | Excluded during the year. | Area on 30th June 1896. | Of the year. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | **Regular Plantations.** | | | | | | |
| | *Northern Circle.* | | | | | | |
| Gánjam .. .. | Agasti Nowgam casuarina plantations. | 141 | 100 | .. | 241 | Rs. .. | Rs. 5,598 |
| Vizagapatam .. | .... | .. | .. | .. | .. | .. | .. |
| Godávari .. | Narsapur plantation .. | 114 | .. | .. | 114 | 1,986 | 599 |
| | Bendamoodanka plantation .. | 362 | .. | .. | 362 | 1,652 | 364 |
| | Total, Godávari .. | (a) 476 | .. | .. | 476 | 3,638 | 963 |
| Kistna .. .. | Kara cashew nut .. .. | 4 | .. | .. | 4 | .. | 273 |
| | Kodur palmyras .. .. | 40 | .. | .. | 40 | 6 | .. |
| | Gopuvanipalem casuarina, &c. | 77 | 5 | .. | 82 | 383 | 350 |
| | Kanukollu casuarina .. | 206 | .. | .. | 206 | 215 | 12 |
| | Allinagaram do. .. | 56 | .. | .. | 56 | 118 | 12 |
| | Bomminampad do. .. | 16 | .. | .. | 16 | .. | 12 |
| | Vemavarapad do. .. | 16 | .. | .. | 16 | .. | 12 |
| | Vanudurru do. .. | 26 | .. | .. | 26 | .. | 12 |
| | Gollapalem soap nut .. .. | 390 | .. | .. | 390 | 60 | .. |
| | Gavaravaram (Nim) .. | 30 | .. | .. | 30 | .. | .. |
| | Bapatla casuarina .. .. | 26 | 30 | .. | 56 | .. | 252 |
| | Karlapalem (mixed) .. .. | 104 | .. | .. | 104 | .. | 457 |
| | Vedullapalli .. .. .. | 13 | .. | .. | 13 | .. | 15 |
| | Wadarenu casuarina .. .. | 72 | .. | .. | 72 | .. | 15 |
| | Nayanipalli do. .. .. | 14 | .. | .. | 14 | .. | 15 |
| | Pandillapalli do. .. .. | 15 | .. | .. | 15 | .. | 15 |
| | Orr's reserve palmyra .. | 123 | .. | .. | 123 | .. | .. |
| | Tummurukodu I Nim and Babul. | 24 | .. | .. | 24 | .. | .. |
| | Total, Kistna .. | 1,252 | 35 | .. | 1,287 | 782 | 1,952 |
| | Total, Northern Circle .. | 1,869 | 135 | .. | 2,004 | 4,420 | 8,513 |
| | *Central Circle.* | | | | | | |
| Cuddapah .. | Kodur (b) .. .. .. | 37 | .. | .. | 37 | 29 | 72 |
| | Uppavapalli (b) .. .. | 108 | .. | .. | 108 | 20 | 71 |
| | Reddipalli (b) .. .. .. | 925 | .. | .. | 925 | 51 | 63 |
| | Aremanibanda (b) .. .. | 4 | .. | .. | 4 | .. | .. |
| | Pullalamadugu (b) .. .. | 55 | .. | .. | 55 | .. | .. |
| | Pullampet (b) .. .. .. | 426 | .. | .. | 426 | 28 | 72 |
| | Kamalapuram (b) .. .. | 454 | .. | .. | 454 | 202 | 132 |
| | Raméswaram (b) .. .. | 91 | .. | .. | 91 | 80 | 60 |
| | Total, Cuddapah .. | 2,100 | .. | .. | 2,100 | 410 | 470 |
| Nellore .. .. | Dugarazpatam .. .. | 825 | 20 | .. | 845 | 958 | 998 |
| | Kottapatam .. .. .. | 657 | 70 | .. | 727 | 3,964 | 787 |
| | Tamenapatam .. .. .. | 579 | .. | .. | 579 | 7,272 | 356 |
| | Vutukur .. .. .. | 180 | 7 | .. | 187 | 1 | 200 |
| | Varini .. .. .. .. | 292 | 8 | .. | 300 | 43 | 206 |
| | Mamandur .. .. .. | 9 | .. | .. | 9 | .. | .. |
| | Tummalapenta .. .. | 100 | .. | 100 | .. | 1,987 | 52 |
| | Ramapatam .. .. .. | 60 | .. | 60 | .. | 675 | 52 |
| | Kottapatam .. .. .. | 146 | .. | .. | 146 | .. | 52 |
| | Kanuparti .. .. .. | 250 | .. | .. | 250 | .. | 54 |
| | Chantrasikuppam .. .. | 10 | .. | .. | 10 | .. | .. |
| | Total, Nellore .. | 3,108 | 105 | 160 | 3,053 | 14,900 | 2,757 |
| Chingleput .. | Meeyur Palappur .. .. | 263 | .. | .. | 263 | 97 | 123 |
| | Mammandur .. .. .. | 3 | .. | .. | 3 | .. | .. |
| | Nazarethpettai .. .. | 71 | .. | .. | 71 | 7 | 48 |
| | Wallajabad .. .. .. | 15 | .. | .. | 15 | 10 | 60 |
| | Total, Chingleput .. | 352 | .. | .. | 352 | 114 | 231 |

(a) As now revised by the Collector. (b) All included in reserved forest.

## Area of Plantations, 1895–96—*cont.*

| District. | Name of plantation. | Area in acres. | | | | Receipts. | Charges. |
|---|---|---|---|---|---|---|---|
| | | On 1st July 1895. | Added during the year. | Excluded during the year. | Area on 30th June 1896. | Of the year. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | Rs. | Rs. |
| | REGULAR PLANTATIONS—*cont.* | | | | | | |
| | *Central Circle*—cont. | | | | | | |
| North Arcot .. | Tiruvellum .. .. .. | 435 | .. | .. | 435 | 324 | 1,096 |
| | Virinjipuram .. .. .. | 260 | .. | .. | 260 | 1 | 1,996 |
| | Ammundi .. .. .. | 160 | .. | .. | 160 | 125 | 1,451 |
| | Kilminnel .. .. .. | 150 | .. | .. | 150 | 4,804 | 789 |
| | Vanivodu .. .. .. | 30 | .. | .. | 30 | 2 | 522 |
| | Cheynoor .. .. .. | .. | 13 | .. | 13 | 46 | 474 |
| | Total, North Arcot .. | 1,035 | 13 | .. | 1,048 | 5,302 | 6,328 |
| South Arcot .. | Chengam .. .. .. | 8 | .. | .. | 8 | .. | .. |
| | Agavam .. .. .. | 106 | .. | .. | 106 | 120 | 48 |
| | Akshikadu .. .. .. | 107 | .. | .. | 107 | 727 | 48 |
| | Talankodor .. .. .. | 184 | .. | .. | 184 | 2,372 | 448 |
| | Fort St. David .. .. | 44 | .. | .. | 44 | .. | 48 |
| | Shonankuppam .. | 140 | .. | .. | 140 | 1,954 | 473 |
| | Donidhurai .. .. .. | 105 | .. | .. | 105 | 1,129 | 179 |
| | Nochikadu .. .. .. | 467 | .. | .. | 467 | 1,455 | 829 |
| | Periyakuppam .. .. | 493 | .. | .. | 493 | .. | 96 |
| | Killai .. .. .. .. | 75 | .. | .. | 75 | 462 | 48 |
| | Pichavaram .. .. .. | 49 | .. | .. | 49 | .. | 47 |
| | Periyappattu .. .. .. | 115 | .. | .. | 115 | .. | 49 |
| | Malatar bed .. .. .. | 27 | .. | .. | 27 | .. | .. |
| | Add Municipal rent on Plantation lands. | .. | .. | .. | .. | .. | 253 |
| | Total, South Arcot .. | 1,920 | .. | .. | 1,920 | 8,249 | 2,566 |
| Trichinopoly .. | .... | 3,754 | .. | (*a*) 3,754 | .. | 15,416 | 1,882 |
| Tanjore .. .. | Tranquebar I (unreserved land). | 52 | .. | (*b*) 52 | .. | .. | .. |
| | Tranquebar II (unreserved land). | 92 | .. | (*b*) 92 | .. | .. | .. |
| | Vettangadi reserved forest .. | 453 | 1 | (*c*) 453 | 1 | .. | 13 |
| | Kodiampaliam (unreserved land). | 60 | .. | .. | 60 | .. | .. |
| | Neidavasal reserved forest .. | 51 | .. | (*d*) 9 | 42 | 882 | 198 |
| | North casuarina reserved forest. | 350 | .. | .. | 350 | 1,888 | 405 |
| | South casuarina reserved forest. | 250 | .. | .. | 250 | 1,612 | 410 |
| | Total, Tanjore .. | 1,308 | 1 | 606 | 703 | 4,382 | 1,026 |
| | Total, Central Circle .. | 13,577 | 119 | 4,520 | 9,176 | 48,773 | 15,260 |
| | *Southern Circle.* | | | | | | |
| South Canara .. | Tirasi casuarina .. .. | 2 | .. | (*e*) 2 | .. | .. | .. |
| | Ullal casuarina and Honne .. | 64 | 6 | .. | 70 | 123 | 348 |
| | Tannirbhavi casuarina .. | 61 | .. | .. | 61 | 1,111 | 100 |
| | Parappa teak .. .. | 52 | .. | .. | 52 | .. | 20 |
| | Add cost of sowing and planting and sundries. | .. | .. | .. | .. | .. | 342 |
| | Total, South Canara .. | 179 | 6 | 2 | 183 | 1,234 | 810 |
| North Malabar .. | Peria Kanoth teak, bamboo, &c. | 224 | 100 | .. | 324 | .. | 231 |
| | Begur Padri teak and blackwood. | 32 | 10 | .. | 42 | .. | 690 |
| | Chedaleth teak .. .. | 20 | 15 | .. | 35 | .. | 211 |
| | Total, North Malabar .. | (*f*) 276 | 125 | .. | 401 | .. | 1,132 |
| South Malabar .. | Nilambur plantations .. | 4,319 | .. | .. | 4,319 | 11,506 | 4,777 |
| | Nellikutta .. .. .. | 120 | .. | .. | 120 | .. | 218 |
| | Total, South Malabar .. | 4,439 | .. | .. | 4,439 | 11,506 | 4,995 |

(*a*) These are not plantations but tank-bed and padugai blocks portions of which were years ago planted up. 98 per cent. of the area contains either coppice or natural seedlings and 2 per cent. covered with casuarina or other exotics. The rea has therefore been struck off the list.

(*b*) Abandoned long ago. (*c*) Portion of the Vettangudi reserved forest over which fruit trees have been planted. Has therefore been omitted from the list.

(*d*) Rectification of area. (*e*) Handed over to the Revenue Department.

(*f*) The Collector has not explained the excess area in the opening balance.

## Area of Plantations, 1895–96—*cont.*

| District. | Name of plantations. | Area in acres. | | | | Receipts. | Charges. |
|---|---|---|---|---|---|---|---|
| | | On 1st July 1895. | Added during the year. | Excluded during the year. | Area on 30th June 1896. | Of the year. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | Rs. | Rs. |
| **Regular Plantations—*cont.*** | | | | | | | |
| ***Southern Circle.*—cont.** | | | | | | | |
| Nilgiris .. | Madumalai .. .. .. | 61 | .. | 36 | 25 | .. | 125 |
| | Benne .. .. .. | 40 | .. | .. | 40 | .. | 192 |
| | Northern Hay .. .. | 23 | .. | .. | 23 | .. | .. |
| | Chemmanguli .. .. | 33 | .. | 8 | 25 | .. | .. |
| | Muthanad .. .. .. | 95 | .. | 15 | 80 | 429 | .. |
| | Brook lands .. .. .. | 10 | 5 | .. | 15 | .. | .. |
| | Marliamund .. .. .. | 11 | .. | .. | 11 | .. | .. |
| | Therma tope .. .. .. | .. | 6 | .. | 6 | .. | .. |
| | Snowdon .. .. .. | 7 | 8 | .. | 15 | .. | .. |
| | Governor's shola .. .. | 277 | .. | 66 | 211 | 1,063 | 288 |
| | Aramby .. .. .. | 251 | .. | 42 | 209 | 1,949 | .. |
| | Cairn Hill .. .. .. | 188 | .. | 83 | 105 | 1,644 | .. |
| | Chinna Kunnur .. .. | 147 | .. | 147 | .. | .. | .. |
| | Arnakal .. .. .. | .. | 9 | .. | 9 | .. | .. |
| | Fern hill .. .. .. | .. | 10 | .. | 10 | .. | .. |
| | Deva shola .. .. .. | 14 | .. | 10 | 4 | .. | .. |
| | Black bridge .. .. .. | 56 | .. | .. | 56 | .. | .. |
| | Bleak house .. .. .. | 87 | .. | .. | 87 | .. | .. |
| | Bandy shola .. .. .. | 95 | .. | 1 | 94 | 39 | .. |
| | Coonoor peak .. .. | 240 | .. | 34 | 206 | 334 | .. |
| | Teppakuchi .. .. .. | 35 | .. | 1 | 34 | .. | .. |
| | Ballia .. .. .. | 138 | .. | 33 | 105 | 3 | .. |
| | Kullar .. .. .. | 240 | .. | ... | 240 | .. | 125 |
| | Municipal assessment .. | .. | .. | .. | .. | .. | 1,853 |
| | Total, Nilgiris .. | 2,048 | (*a*) 38 | (*b*) 476 | 1,610 | 5,461 | 2,583 |
| South Coimbatore. | Tunacadava Nos. I to IV .. | 28 | .. .. | .. | 23 | .. | (*c*) 250 |
| Madura .. .. | Vannathi Parai teak plantation. | 7 | .. | .. | 7 | .. | .. |
| | Post office plantation .. | 8 | .. | .. | 8 | .. | .. |
| | Vilancombie teak plantation. | 4 | .. | .. | 4 | .. | .. |
| | Pumbarai Acacia plantation. | 3 | .. | .. | 3 | .. | .. |
| | Kodaikanal scattered plantation. | 3 | .. | .. | 3 | .. | .. |
| | Gundan shola plantation .. | 146 | 22 | .. | 168 | 1,847 | 527 |
| | Thenur .. .. .. | 12 | .. | .. | 12 | .. | .. |
| | Thovariman .. .. | 21 | .. | .. | 21 | .. | .. |
| | Total, Madura .. | 204 | 22 | .. | 226 | 1,847 | 527 |
| | Total, Southern Circle .. | 7,174 | 191 | 478 | 6,887 | 20,048 | 10,297 |
| | Grand Total, Regular plantations. | 22,620 | 445 | 4,998 | 18,067 | 73,241 | 34,070 |
| **Cultural Operations.** | | | | | | | |
| ***Northern Circle.*** | | | | | | | |
| Ganjám .. | .... | 402 | 3 | 1 | 404 | 20 | 295 |
| Vizagapatam .. | .... | .. | .. | .. | .. | .. | 41 |
| Gódávari .. | .... | .. | .. | .. | .. | .. | .. |
| Kistna .. | .... | (*d*) 62 (*g*) | .. | .. | 62 | 55 | 1,068 |
| Kurnool .. | .... | .. | .. | .. | .. | .. | (*e*) 36 |
| Bellary .. | .... | 340 | 18 | .. | 358 | .. | (*f*) 642 |
| Anantapur .. | .... | (*g*) 52 | .. | .. | 52 | 158 | .. |
| | Total, Northern Circle .. | 856 | 21 | 1 | 876 | 233 | 2,082 |

(*a*) By rectification of area.
(*b*) By rectification of area and transfer to cultural operations.
(*c*) Cost of clearing jungle and wild growth, &c.
(*d*) Nurseries for Kondapalli and Kondavid reserves and Nurseries experimental for exotics and fruit trees.
(*e*) Planting seedlings in the Nandyal bungalow.
(*f*) For sowing, &c.
(*g*) The Collector has not explained the excess area in the opening balance.

## Area of Plantations, 1895-96—*cont.*

| District. | Name of plantation. | Area in acres. | | | | Receipts. | Charges. |
|---|---|---|---|---|---|---|---|
| | | On 1st July 1895. | Added during the year. | Excluded during the year. | Area on 30th June 1896. | Of the year. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | CULTURAL OPERATIONS—*cont.* | | | | | |
| | | *Central Circle.* | | | | Rs. | Rs. |
| Cuddapah .. .. | .... | 593 | 8 | .. | 601 | .. | (*a*) 237 |
| Nellore .. .. | .... | 1,072 | 60 | .. | 1,132 | .. | 239 |
| Chingleput .. | .... | .. | .. | .. | .. | .. | 4 |
| North Arcot .. | .... | 1,407 | 155 | .. | 1,562 | 7 | 1,682 |
| South Arcot .. | .... | 1,326 | 164 | .. | 1,490 | .. | 1,411 |
| Trichinopoly .. | .... | Mls. 100 | 104 | 10 | Mls. 100 94 | 2,334 | 64 |
| Tanjore .. .. | .... | 1,208 | 40 | .. | 1,248 | .. | 24 |
| | Total, Central Circle .. | 5,606 Mls. 100 | 531 .. | 10 .. | 6,127 Mls. 100 | 2,341 .. | 3,861 .. |
| | | *Southern Circle.* | | | | | |
| North Malabar .. | .... | 109 | .. | 109 | .. | .. | .. |
| Nilgiris .. .. | .... | 67 | 414 | (*a*) 2 | 479 | .. | 1,150 |
| South Coimbatore .. | .... | (*b*) 66 | 109 | .. | 175 | .. | 1,240 |
| Tinnevelly .. | .... | 3,343 | 66 | 13 | 3,396 | .. | 462 |
| | Total, Southern Circle .. | 3,585 | 589 | 124 | 4,050 | .. | 2,852 |
| | Total, Cultural Operations .. | 10,047 | 1,141 | 135 | 11,053 | 2,574 | 8,795 |
| | Total, Regular Plantations and Cultural Operations, Northern Circle. | 2,725 | 156 | 1 | 2,880 | 4,653 | 10,595 |
| | Total, Regular Plantations and Cultural Operations, Central Circle. | 19,183 Mls. 100 | 650 | 4,530 | 15,303 Mls. 100 | 51,114 | 19,121 |
| | Total, Regular Plantations and Cultural Operations, Southern Circle. | 10,759 | 780 | 602 | 10,937 | 20,048 | 13,149 |
| | Grand Total .. | 32,667 Mls. 100 | 1,586 | 5,133 | 29,120 Mls. 100 | 75,815 | 42,865 |

(*a*) Rectification of area and actual addition.

(*b*) The Collector has not explained the difference between this column and the closing balance of the previous year.

## Annual Form No. 54.

*Forest Department, Madras Presidency.*

### Annual list of topes.

| Districts. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Northern Circle.* | | | | |
| | | | | | ACS. | RS. | RS. | |
| Ganjám. | Berhampur .. | 3 | .... | Miscellaneous .. .. | 13 | .. | 922 | |
| | Goomsur .. | 1 | .... | Do. .. .. | 83 | .. | | |
| | Chicacole .. | 3 | .... | Do. .. .. | 5 | .. | | |
| | | 7 | | Total, Ganjám .. | 101 | .. | 922 | |
| Vizagapatam. | Palkonda .. | 1 | Garuguballi .. .. | Teak and sâl .. .. | 27 | 113 | .. | |
| | | 2 | China Mangalapuram .. | Teak and rellagrass .. | 51 | 67 | .. | |
| | | | | Total, Vizagapatam .. | 78 | 180 | 783 | |
| Gódávari. | .... | | .... | .... | .. | .. | .. | |
| Kistna. | Bandur .. | 1 | Bombay basin tope .. | Casuarina .. .. .. | 14 | 60 | .. | |
| | | 2 | Bandur nursery and Collector's cutcherry compound. | Graft mangoes .. .. | 4 | .. | .. | |
| | | 3 | Bandur Tahsildar's cutchery compound. | Do. and tamarind. | 4 | 125 | .. | |
| | Bezwada .. | 4 | Nandigáma .. .. | Margosa .. .. .. | 11 | .. | .. | |
| | | 5 | * Do. Tahsildar's cutcherry compound. | Margosa and mangoes, &c. | .. | 20 | .. | |
| | | 6 | Bezwada Head Assistant Collector's cutcherry compound. | Mangoes .. .. .. | 3 | 60 | .. | |
| | Vinukonda. | 7 | Vinukonda .. .. | Margosa and palmyra .. | 6 | .. | .. | |
| | | 8 | Remidicherla .. .. | Soapnuts, &c. .. .. | 3 | .. | .. | |
| | | 9 | Narasaraopet .. .. | Palmyra, &c. .. .. | 7 | .. | .. | |
| | | 10 | Kunkalagunta .. .. | Nim .. .. .. | 5 | .. | .. | |
| | | 10 | | Total, Kistna .. | 57 | 265 | 2,923 | |
| Kurnool. | Ramallakot. | 1 | China Tekur .. .. | Tamarind and mango trees. | 7 | .. | .. | |
| | | 2 | Ulindakonda .. .. | Do. do. | 7 | .. | .. | |
| | | 3 | Veldurti (Brahmagundum. | Do. do. | 24 | .. | .. | |
| | | 4 | Udumalapad .. .. | Do. do. | 5 | .. | .. | |
| | | 5 | Pyalakurti .. .. | Do. do. | 6 | .. | .. | |
| | | 6 | Kottapalli .. .. .. | Do. do. | 6 | .. | .. | |
| | | 7 | Tamarajupalli .. .. | Do. do. | 4 | .. | .. | |
| | | 8 | Kuruva Nágalápuram .. | Do. do. | 11 | .. | .. | |
| | | | | Total .. | 70 | .. | .. | |
| | Pattikonda. | 9 | Kodumur .. .. .. | Tamarind and mango trees. | 3 | .. | .. | |
| | | 10 | Karevemula .. .. | .... | 6 | .. | .. | |
| | | 11 | Billikallu .. .. .. | .... | 5 | .. | .. | |
| | | 12 | Yenugamarri .. .. | .... | 6 | .. | .. | |
| | | 13 | Chenchu Yerragudi .. | .... | 9 | .. | .. | |
| | | 14 | Pattikonda Munro's tope. | .... | 17 | 104 | .. | |
| | | 15 | Kristipad .. .. .. | .... | 3 | .. | .. | |
| | | 16 | Alavakonda .. .. | .... | 2 | .. | .. | |
| | | 17 | Jammulavaridinni .. | .... | 3 | .. | .. | |
| | | 18 | Rupanagudi .. .. | .... | 1 | .. | .. | |
| | | | | Total .. | 55 | 104 | .. | |
| | Nandikotkur. | 19 | Vipanagundla .. .. | .... | 2 | .. | .. | |
| | | 20 | Nandikótkur .. .. | .... | 3 | 80 | .. | |
| | | | | Total .. | 5 | 80 | .. | |
| | Nandyal .. | 21 | Kakanur .. .. .. | .... | 25 | .. | .. | |
| | | 22 | Ayalur .. .. .. | .... | 4 | .. | .. | |
| | | | | Total .. | 29 | .. | .. | |
| | Sirvel .. | 23 | Nallaguntla .. .. | .... | 6 | .. | .. | |
| | | 24 | Govindapalli .. .. | .... | 10 | .. | .. | |
| | | | | Total .. | 16 | .. | .. | |
| | Cumbum .. | 25 | Surepalli .. .. .. | .... | 4 | .. | .. | |
| | | 26 | Bestwarapeta .. .. | .... | 9 | .. | .. | |
| | | | | Total .. | 13 | .. | .. | |

* Added during the year.

## Annual list of topes—*cont.*

| Districts. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Northern Circle*—cont. | ACS. | RS. | RS. | |
| Kurnool—*cont.* | Markapur .. | 27 | Markapur .. .. .. | .... | 8 | .. | .. | |
| | | 28 | Dupad .. .. .. | .... | 4 | .. | .. | |
| | | 29 | Ramachendrakota .. | .... | 2 | .. | .. | |
| | | | | Total .. | 14 | .. | .. | |
| | | (a) 29 | | Total, Kurnool .. | (b) 202 | (c) 184 — 42 | 9,735 | |
| Bellary. | Bellary .. | 1 | Tagginabudebalu .. | Casuarina .. .. .. | 29 | .. | .. | |
| | | 2 | Kuditani .. .. .. | Tamarind and mango .. | 3 | .. | .. | |
| | | 3 | Kolagal .. .. .. | Tamarind .. .. .. | 5 | .. | .. | |
| | | 4 | Rupanagudi .. .. | Do. and margosa .. | 13 | .. | .. | |
| | | 5 | Kuggal .. .. .. | Tamarind .. .. .. | 5 | .. | .. | |
| | | 6 | Rayadrug .. .. .. | Various kinds .. .. | 3 | 60 | .. | |
| | | 7 | Somalapuram .. .. | Tamarind and margosa .. | 4 | 51 | .. | |
| | | 8 | Mullapuram .. .. | Do. .. .. .. | 5 | 52 | .. | |
| | | 9 | Udegolam .. .. .. | Do. and margosa .. | 5 | .. | .. | |
| | Kúdligi .. | 10 | Appinakeri .. .. | Mango, &c. .. .. | 5 | .. | .. | |
| | | 11 | Bandri .. .. .. | Do. .. .. | 3 | .. | .. | |
| | | 12 | Ramadurgam .. .. | Do. .. .. | 1 | .. | .. | |
| | | 13 | Kosakeri .. .. .. | Do. .. .. | 3 | .. | .. | |
| | | 14 | Kolinakal .. .. .. | Tamarind and mango .. | 9 | .. | .. | |
| | | 15 | Hadagalli .. .. .. | Margosa .. .. .. | 2 | .. | .. | |
| | | 16 | Kuruvatti .. .. .. | Figs, &c. .. .. .. | 1 | .. | .. | |
| | | 17 | Teligi .. .. .. | Tamarind and mango .. | 2 | .. | .. | |
| | Adóni .. | 18 | Lingadahalli .. .. | Do. .. | 16 | .. | .. | |
| | | 19 | Alur .. .. .. | Tamarind and Ippa .. | 20 | .. | .. | |
| | | 20 | Aspari .. .. .. | Do. .. | 8 | 60 | .. | |
| | | 21 | Kokkarachedu .. .. | Tamarind .. .. .. | 1 | .. | .. | |
| | | 22 | Neraniki .. .. .. | Do. .. .. .. | 5 | .. | .. | |
| | | 23 | Suluvaye .. .. .. | Do. .. .. .. | 12 | .. | .. | |
| | | 24 | Kurukundi .. .. | Do. .. .. .. | 10 | .. | .. | |
| | | 25 | Tornagal .. .. .. | Do. .. .. .. | 2 | .. | .. | |
| | | 26 | Cheppagiri .. .. | Do. .. .. .. | 19 | .. | .. | |
| | | 27 | Benegira .. .. .. | Do. .. .. .. | 7 | .. | .. | |
| | | 28 | Hanegera .. .. .. | Do. .. .. .. | 1 | .. | .. | |
| | | 29 | Kullubhavi .. .. | Casuarina, &c. .. .. | 8 | 60 | .. | |
| | | 30 | Yemmiganur .. .. | Mango, &c. .. .. | 5 | .. | .. | |
| | | * 30 | | Total, Bellary .. | 212 | 283 | 2,009 | |
| Anantapur. | Gooty .. | 10 | Amaroy and jali .. .. | Palmyra, babul and tamarind. | 184 | 118 | .. | |
| | Muchukota. | 20 | Do. .. .. | Do. do. | 689 | 227 | .. | |
| | Dharmavaram. | 29 | Do. .. .. | Do. do. | 1,555 | 180 | .. | |
| | Penukonda. | 15 | Do. .. .. | Do. do. | 310 | 72 | .. | |
| | Hindúpur .. | 16 | Do. .. .. | Do. do. | 121 | 76 | .. | |
| | Madakasira. | 5 | Do. .. .. | Do. do | 26 | 69 | .. | |
| | | 95 | | Total, Anantapur .. | 2,885 | 742 | 9,227 | |
| | Total N. C. .. | 173 | | Total, Northern Circle .. | 3,555 | 1,612 | 25,599 | |
| | | | | *Central Circle.* | | | | |
| Cuddapah. | Kódúru .. | 1 | Chinnaorampad .. .. | Mango .. .. .. | 8 | .. | 805 | |
| | | 2 | Anantampalli .. .. | Do. albizzia .. .. | 6 | 33 | 742 | |
| | | 3 | Kódúr .. .. .. | Do. tamarind .. .. | 7 | .. | 1,548 | |
| | | 4 | Periyavaram .. .. | Palmyra .. .. .. | 24 | .. | 183 | |
| | | 4 | | Total .. | 45 | 33 | 3,278 | |
| | Rázampéta. | 1 | Pullampet .. .. .. | Mango, albizzia .. .. | 2 | .. | 686 | |
| | | 2 | Utukur .. .. .. | Margosa .. .. .. | 15 | .. | 1,517 | |
| | | 3 | Rajampet .. .. .. | Do. and tamarind .. | 5 | .. | 813 | |
| | | 4 | Nagireddipalli .. .. | Palmyra .. .. .. | 19 | .. | 249 | |
| | | 5 | Yerraballe .. .. .. | Tangdie .. .. .. | 7 | .. | 48 | |
| | | 5 | | Total .. | 48 | .. | 3,313 | |
| | Sidhout .. | 1 | Kondúr .. .. .. | Albizzia .. .. .. | 11 | 22 | 3,053 | |
| | | 2 | Razupalam .. .. | Eugenia, &c. .. .. | 8 | 22 | 1,516 | |
| | | 3 | Sidhout .. .. .. | Mango, &c. .. .. | 9 | .. | 2,571 | |
| | | 4 | Obalam .. .. .. | Tamarind .. .. .. | 12 | .. | 1,478 | |
| | | 4 | | Total .. | 40 | 44 | 8,618 | |

* One tope was abandoned during the year.

(*a*) Date plantation at Bairluti and bamboo plantations at Pudur in Gadidamadugu reserve and Tekulakonda reserve and the cost incurred on these were excluded from this form as they ought to be shown in form No. 53 (plantations); hence decrease in number and total cost.

(*b*) The increase in area is due to the addition of 20 acres being extent of Munro's tope taken from Revenue Department and Nandikotkur tope purchased in last year.

(*c*) Deducted as per Accountant-General's Statement Form No. 59.

## Annual list of topes—*cont.*

| Districts. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Central Circle*—cont. | ACS. | RS. | RS. | |
| Cuddapah—*cont.* | Badvel | 1 | Ragulakunta | Margosa, &c. | 2 | .. | 766 | |
| | | 2 | Badvel | Do. | 13 | .. | 579 | |
| | | 3 | Janikiramayyapatti | Do. | 12 | .. | 546 | |
| | | 4 | Venkatapuram | Tamarind, &c. | 12 | .. | 453 | |
| | | 5 | Porumavilla | Do. | 11 | .. | 380 | |
| | | 6 | Vattamadugu | Do. | 13 | .. | 694 | |
| | | 6 | | Total | 63 | .. | 3,418 | |
| | Proddatur | 1 | Chinte kunta | Mango and margosa | 25 | .. | 1,447 | |
| | | 2 | Maidukur | Do. and tamarind | 7 | .. | 323 | |
| | | 2 | | Total | 32 | .. | 1,770 | |
| | Jammalmadugu | 1 | Diguvapatnam | Mango | 11 | .. | 1,638 | |
| | | 2 | Muddanur | Margosa and dirisanam | 5 | .. | 621 | |
| | | 3 | Vomiguttapalli | Do. do. | 2 | .. | 323 | |
| | | 4 | Ponnatota | Casuarina | 2 | .. | 460 | |
| | | 5 | Talla Proddatur | Margosa and dirisanam | 86 | .. | 1,954 | |
| | | 6 | Kodur | Do. do. | 21 | .. | 2,105 | |
| | | 7 | Pottipaudu | Do. do. | 99 | .. | 861 | |
| | | 8 | Kondapuram | Do. and palmyra | 25 | .. | 1,262 | |
| | | 9 | Gandulair | Do. do. | 58 | .. | 3,918 | |
| | | 9 | | Total | 309 | .. | 13,142 | |
| | Pulivendla. | 1 | Idupulapaya | Palmyra | 517 | 60 | 1,930 | |
| | | 2 | Pulivendula | Margosa and dirisanam | 32 | .. | 1,128 | |
| | | 3 | Alireddipalli | Babul | 16 | .. | 68 | |
| | | 4 | Vempalli | Palmyra | 15 | .. | 362 | |
| | | 5 | Tellur | Margosa and dirisanam | 6 | .. | 905 | |
| | | 6 | Velapula | Do. do. | 4 | .. | 691 | |
| | | 7 | Mallela | Do. do. | 6 | .. | 419 | |
| | | 8 | Nidivelagula | Babul | 15 | .. | 145 | |
| | | 9 | Kasanur | Do. | 7 | .. | 164 | |
| | | 10 | Balapanur | Do. | 20 | .. | 176 | |
| | | 10 | | Total | 638 | 60 | 5,988 | |
| | Cuddapah | 1 | Ootakur | Mango | 2 | .. | 449 | |
| | | 2 | Kokatam | Margosa and dirisanam | 12 | .. | 729 | |
| | | 3 | Erraguntla | Do. do. | 5 | .. | 954 | |
| | | 4 | Kondur | Mango | 19 | .. | 137 | |
| | | 5 | Pushpagiri | Margosa and dirisanam | 7 | .. | 289 | |
| | | 6 | Appayapalli | Casuarina | 98 | .. | 3,590 | |
| | | 7 | Gudur | Palmyra, margosa and albezzia tella tumma. | 40 | .. | 10 | |
| | | 7 | | Total | 178 | .. | 6,158 | |
| | Kadiri | 1 | Tsadam | Margosa and dirisanam | 10 | .. | 194 | |
| | | 2 | Odulapalli | Do. do. | 12 | .. | 240 | |
| | | 3 | Saidapuram | Palmyra | 5 | .. | 490 | |
| | | 4 | Kadiri | Margosa and dirisanam | 5 | .. | 754 | |
| | | 5 | Obuladevara cheruvu | Do. do. | 12 | .. | 325 | |
| | | 6 | Gangapalli | Do. do. | 8 | .. | 219 | |
| | | 7 | Dhavayani cheruvu | Do. do. | 8 | .. | 173 | |
| | | 8 | Kurli | Do. do. | 13 | .. | 343 | |
| | | 8 | | Total | 73 | .. | 2,738 | |
| | Madanapalle | 1 | Basinikonda | Tamarind, maddi and casuarina. | 16 | .. | 1,922 | |
| | | 2 | Madanapalli | Casuarina | 25 | 60 | 2,831 | |
| | | 3 | Do. new tope | Bark, ornamental trees | 3 | .. | 357 | |
| | | 4 | Battabuvotti gadda | Mango, &c. | 2 | .. | 1,300 | |
| | | 5 | Vempalli | Palmyra | 10 | .. | .. | |
| | | 6 | Thettoo | Margosa, dirisanam, &c. | 6 | .. | 10 | |
| | | 7 | Horsleykonda | Mango, orange, coffee and ornamental trees. | 3 | 21 | 654 | |
| | | 7 | | Total | 65 | 81 | 7,074 | |

## Annual list of topes—*cont.*

| Districts. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Central Circle*— cont. | | | | |
| | | | | | ACS. | RS. | RS. | |
| Cuddapah—*cont.* | Rayachóti .. | 1 | Guvvalacheruvu .. .. | Margosa and tamarind .. | 14 | .. | 366 | |
| | | 2 | Sambupalli .. .. | Do. do. .. | 15 | .. | 200 | |
| | | 3 | Chitlur .. .. .. | Do. do. .. | 17 | .. | 530 | |
| | | 4 | Hasanapuram .. .. | Palmyra .. .. .. | 44 | 63 | 866 | |
| | | 5 | Galivedu .. .. .. | Margosa and tamarind .. | 5 | .. | 189 | |
| | | 6 | Gadikota .. .. .. | Palmyra .. .. .. | 14 | .. | 103 | |
| | | 6 | | | 109 | 63 | 2,317 | |
| | Vayalpad .. | 1 | Kalikeri .. .. .. | Margosa, tamarind .. | 13 | .. | 1,274 | |
| | | 2 | Kalakada .. .. .. | Do. .. | 9 | .. | 1,237 | |
| | | 3 | Piler .. .. .. | Palmyra .. .. .. | 8 | .. | 931 | |
| | | 3 | | Total .. | 30 | .. | 3,442 | |
| | Total, Cuddapah .. | 71 | | Total, Cuddapah .. | 1,630 | 281 | 61,256 | |
| Nellore .. | .... | .. | .... | .... | .. | .. | .. | |
| Chingleput. | Chingleput. | 1 | Athur .. .. .. | Mangoes, margosa, jack, &c. | 24 | .. | 1,368 | |
| | | 2 | Mamandur .. .. | Tamarind and casuarina .. | 11 | .. | 1,183 | |
| | | 3 | Nelvoy .. .. .. | Casuarina and margosa .. | 10 | .. | 1,337 | |
| | | 4 | Karunguli .. .. .. | Mangoes, margosa, &c. .. | 4 | 5 | 1,072 | |
| | | 5 | Sathupakkam .. .. | Iluppai and mangoes .. | 6 | .. | 1,233 | |
| | | 6 | Sithanur .. .. .. | Casuarina and illuppai .. | 5 | .. | 891 | |
| | | | | Total .. | 60 | 5 | 7,084 | |
| | Saidapet .. | 7 | Homes Garden .. .. | Korukapuli, mangoes, tamarind, coccanut and wood-apple, &c. | 26 | 72 | 1,898 | |
| | | 8 | Marmalong Bridge tope. | | 3 | 60 | | |
| | | | | Total .. | 29 | 132 | 1,898 | |
| | Tiruvallúr .. | 9 | Tiruvallúr .. .. .. | Mango, tamarind and margosa. | 5 | .. | 2 | |
| | | 10 | Periacuppam .. .. | Margosa and mangoes .. | 3 | .. | | |
| | | 10 | | Total .. | 8 | .. | 2 | |
| | | | | Miscellaneous charges .. | .. | 132 | 266 | |
| | | | | Total, Chingleput .. | 97 | 269 | 9,250 | |
| North Arcot. | Chittoor .. | 3 | .... | Tamarind, mango, teak, palmyra, cocoanut, casuarina and illuppai. | 138 | 84 | 2,146 | |
| | Chandragiri .. | 4 | .... | Mango, fig, palmyra, nim, tamarind and wood-apples. | 26 | .. | 2,232 | |
| | Palmanér .. | 8 | .... | Mango, illuppai, tamarind, cocoanut, casuarina and eucalyptus. | 176 | 42 | 10,260 | |
| | Gudiyáttam .. | 3 | .... | Babul, palmyra, nagai, date, mango, wood-apple, cocoanut, tamarind, orange and banyan. | 55 | 42 | 16,598 | |
| | Vellore .. | 9 | .... | Casuarina, mango, illuppai, wood-apple, tamarind, palmyra, teak and babul. | 994 | 235 | 4,711 | |
| | Polur .. | 8 | .... | Tamarind, casuarina, palmyra, mango, goa, banyan, fig, jack, orange, wood-apple, babul, date, cocoanut, soapnut and lime. | 59 | 42 | 1,226 | |
| | Arcot .. | 7 | .... | Mango, tamarind, illuppai, palmyra, date, casuarina, goa and banyan. | 119 | .. | 524 | |
| | Wallajah .. | 13 | .... | Mango, illuppai, nagai, casuarina, tamarind, babul, &c. | 207 | 48 | 6,863 | |
| | Wandiwash .. | 16 | .... | Tamarind, mango and palmyra. | 164 | 36 | 222 | |
| | | 71 | | Total, North Arcot .. | 1,938 | 529 | 44,782 | |

## Annual list of topes—*cont.*

| District. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Central Circle*—cont. | | | | |
| | | | | | Acs. | | | |
| | | 1 | Tandrampet .. .. | Tamarind and illuppai .. | 5 | .. | .. | |
| | | 2 | Mallavadi .. .. .. | Tamarind, illuppai and palmyra. | 3 | .. | .. | |
| | | 3 | Sorandai .. .. .. | Nagai, tamarind and illuppai. | 5 | .. | .. | |
| | | 4 | Nukumbadi .. .. | Tamarind and illuppai .. | 11 | .. | .. | |
| | | 5 | Mangalam .. .. .. | Illuppai, nagai .. .. | 6 | .. | .. | |
| | | 6 | Mudiyanur .. .. | Tamarind, illuppai .. | 5 | .. | .. | |
| | | 7 | Nallur .. .. .. | Tamarind and illuppai .. | 2 | .. | .. | |
| | | 8 | Kilnattur .. .. .. | Do. do. .. | 6 | .. | .. | |
| | | 9 | Attandal .. .. .. | Illuppai and nagai .. | 4 | .. | .. | |
| | | 10 | Savalpundi .. .. | Illuppai, vemboo and mango. | 4 | .. | .. | |
| | | 11 | Mekalur .. .. .. | Illuppai, tamarind and nagai. | 11 | .. | .. | |
| | | 12 | Somasipadi .. .. | Illuppai .. .. .. | 4 | .. | .. | |
| | No. I, Tiruvannámalai. | 13 | Kolappadi .. .. | Tamarind, illuppai and nagai. | 6 | .. | .. | |
| | | 14 | Kolakkudi .. .. .. | Tamarind, illuppai and mango. | 6 | .. | .. | |
| | | 15 | Maltur .. .. .. | Tamarind, illuppai and nagai. | 5 | .. | .. | |
| | | 16 | Nadalagananda .. .. | Illuppai .. .. .. | 5 | .. | .. | |
| | | 17 | Nathangal .. .. | Illuppai, katwagai and poovarasam. | 1 | .. | .. | |
| | | 18 | Damarakulam .. .. | Illuppai and katwagai .. | 3 | .. | .. | |
| | | 19 | Ella Pillaikulam .. .. | Tamarind and illuppai .. | 3 | .. | .. | |
| | | 20 | Konalur .. .. .. | Mango, nagai, illuppai and tamarind. | 4 | .. | .. | |
| | | 21 | Nochimalai .. .. | Tamarind, illuppai and babul. | 5 | .. | .. | |
| | | 22 | Kilserupakam .. .. | Tamarind and illuppai .. | 3 | .. | .. | |
| | | 23 | Somasamudram .. .. | Tamarind, vembu, illuppai, nagai and mango. | 6 | .. | .. | |
| | | 24 | Samudram .. .. .. | Tamarind, vembu, illuppai and nagai. | 4 | .. | .. | |
| | | 25 | Do. .. .. .. | Tamarind, illuppai, vembu and mango. | 2 | .. | .. | |
| | | 26 | Kallimedu .. .. .. | Tamarind and illuppai .. | 1 | .. | .. | |
| | | 27 | Relief camp .. | Mango, red sanders, valvelangu, ceara rubber peblian, kegglu, ponata, sissu and cashew. | 6 | .. | .. | |
| | No. II, Tindivanam. | 28 | Marisetti .. .. .. | Casuarina, tamarind, cashew and mango stem. | 3 | .. | .. | |
| South Arcot. | | 29 | Nathangal .. .. .. | Illuppai, katwagai, tamarind and sandal, &c. | 7 | .. | .. | |
| | | 30 | Sattambadi .. .. | Illuppai, mango, vembu and katwagai. | 16 | .. | .. | |
| | | 31 | Divanur .. .. .. | Illupai, tamarind .. .. | 5 | .. | .. | |
| | | 32 | Poovarasankuppam .. | Tamarind, palmyra and nagai. | 2 | .. | .. | |
| | | 33 | Tirupachanur .. .. | Tamarind, nagai and palmyra. | 6 | .. | .. | |
| | | 34 | Maharajapuram .. .. | Tamarind .. .. .. | 3 | .. | .. | |
| | No. III, Villupuram. | 35 | Palaput .. .. .. | Do. .. .. .. | 16 | .. | .. | |
| | | 36 | Panamalai .. .. .. | Tamarind, nagai and illuppai. | 2 | .. | .. | |
| | | 37 | Ariyur .. .. .. | Tamarind and illuppai .. | 3 | .. | .. | |
| | | 38 | Sattanur .. .. .. | Tamarind, babul and palmyra. | 5 | .. | .. | |
| | | 39 | Pattanur .. .. .. | Mango, tamarind, illuppai, cashew, &c , nelli. | 10 | .. | .. | |
| | No. IV, Cuddalore, Cuddalore taluk. | 40 | Poongunam .. .. | Tamarind, mango and babul-portia. | 7 | .. | .. | |
| | Chidambaram taluk. | 41 | Melkondalavadi .. .. | Tamarind, &c., 40 species. | 13 | .. | .. | |
| | | 42 | Palaman .. .. .. | *Nil* .. .. .. .. | 2 | .. | .. | |
| | No. V, Tirukkóyilúr. | 43 | Vannankuttai .. .. | Illappai and konnai .. | 3 | .. | .. | |
| | | 44 | Kasha nursery .. .. | Mango, tamarind, vila, palmyra. | 6 | .. | .. | |
| | | 45 | Indali .. .. .. | Mango, illuppai, tamarind. | 12 | .. | .. | |
| | No. VI, Kallakurchi. | 46 | Namasivayapuram .. | Tamarind, palmyra and illuppai. | 10 | .. | .. | |
| | | 47 | Melvali .. .. .. | Mango, tamarind and velvelam. | 16 | .. | .. | |
| | | 48 | Bangaram .. .. | Tamarind and palmyra .. | 8 | .. | .. | |
| | | 49 | Sankarapuram, north .. | Mango .. .. .. | 31 | .. | .. | |

## Annual list of topes—*cont.*

| District. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Central Circle*—cont. | | | | |
| | | | | | ACS. | | RS. | |
| South Arcot —*cont.* | No. VI, Kallakurchi—*cont.* | 50 | Sankarapuram, south .. | Mango .. .. .. | 9 | .. | .. | |
| | | 51 | Puttai .. .. .. | Do. .. .. .. | 11 | .. | .. | |
| | | 52 | Kattuvanyur .. .. | Do. .. .. .. | 30 | .. | .. | |
| | | 53 | Kattukudi .. .. | Tamarind and illuppai .. | 8 | .. | .. | |
| | | 54 | Kallakkurichi .. .. | Mango and tamarind .. | 1 | .. | .. | |
| | No. VII, Vriddhachalam. | 55 | Vallimarudam .. .. | Tamarind and palmyra .. | 6 | .. | .. | |
| | No. II, Tindivanam. | 56 | Tindivanam, Depôt .. | Mellingtomu, &c. .. .. | 1 | .. | .. | |
| | | 57 | Murungapakam .. .. | Sissur, peltaphorum and cashew. | 6 | .. | .. | |
| | | 58 | Allamputtur .. .. | Mango, tamarind and illuppai. | 19 | .. | .. | |
| | | 59 | Sirunampundi .. .. | Tamarind and mango .. | 2 | .. | .. | |
| | | 60 | Surappa Naicken tope .. | Tamarind, illuppai, palmyra and vembu. | 2 | .. | .. | |
| | No. III, Villupuram. | 61 | Salaiyumpaliem .. .. | Illuppai and mango .. | 5 | .. | .. | |
| | | 62 | Mathur .. .. .. | Mango and palmyra .. | 2 | .. | .. | |
| | No. VI, Kallakurchi. | 63 | Neelamangalam .. .. | Nagai, mango and tamarind. | 89 | .. | .. | |
| | | 64 | Yemaputtur .. .. | Tamarind .. .. .. | 13 | .. | .. | |
| | | 65 | Urangam .. .. .. | Tamarind, nagai and velwel. | 13 | .. | .. | |
| | | 66 | Karunguli .. .. | Do. do. .. | 3 | .. | .. | |
| | No. VII, Vriddhachalam. | 67 | Orangur, 1st Bit .. .. | Do. do. .. | 20 | .. | .. | |
| | | 68 | Do 2nd Bit .. .. | Do. do. .. | 4 | .. | .. | |
| | | 69 | Do. 3rd Bit .. .. | Do. do. .. | 5 | .. | .. | |
| | | 70 | Tachoor .. .. .. | Do. do. .. | 6 | .. | .. | |
| | | *a* 70 | | Total .. | (*b*) 567 | .. | 9,027 | |
| Salem. | Salem, East. | 1 | Pudur Nursery tope .. | Mango, &c. .. .. | 2 | .. | 1,416 | |
| | | 2 | Hasthampatti forest bangalow tope. | Tamarind, &c. .. .. | 1 | .. | .. | |
| | | 3 | Civil Court compound tope. | Manja konnai, &c. .. | 6 | .. | 1,833 | |
| | | 4 | Kallankuttai Knox tope. | Margosa, &c. .. .. | 5 | .. | .. | |
| | | 12 | Line Local Fund Bangalow tope. | Mango, &c. .. .. | 2 | .. | .. | |
| | | 16 | Ayothiyapatnam tope .. | Do. .. .. | 8 | .. | 1,862 | |
| | | 17 | Kattaveppalapatti tope .. | Do. .. .. | 25 | .. | 143 | |
| | | 18 | Mattupatti tope .. .. | Do. .. .. | 25 | .. | 723 | |
| | | 19 | Valasur tope .. .. | Do. .. .. | 25 | .. | 1,355 | |
| | | 31 | Venamdur tope .. .. | Tamarind, &c. .. .. | 10 | .. | 1,329 | |
| | | 35 | Muthukalipatti tope .. | Do. .. .. | 3 | .. | 1,051 | |
| | | 36 | Koneripatti tope .. | Nagai, &c. .. .. | 30 | .. | 2,636 | |
| | | 37 | Anaikattipolayam tope .. | Tamarind, &c. .. .. | 35 | .. | 2,464 | |
| | | 38 | Andagalur tope .. .. | Do. .. .. | 58 | .. | 32 | |
| | | 39 | Athanur tope .. .. | Do. .. .. | 50 | .. | 4,089 | |
| | | 62 | Yercaud and sacred grove tope. | .... | 20 | .. | .. | |
| | | 63 | Vellalapatti tope .. .. | Tamarind, &c. .. .. | 2 | .. | 768 | |
| | Tiruppattûr. | 6 | Koratti palmyra tope .. | Palmyra, &c. .. .. | 11 | .. | 263 | |
| | | 7 | Tiruppattûr palmyra tope. | Do. .. .. | 15 | .. | 199 | |
| | | 8 | Elavanpatti .. .. | Do. trees .. .. | 15 | .. | 291 | |
| | | 9 | Erunampatti tope .. | Tamarind, &c. .. .. | 4 | .. | 379 | |
| | | 12 | Vaniyambadi Railway Camping tope. | Karuvela, &c. .. .. | 10 | .. | 315 | |
| | | 13 | Komarampatti palmyra tope. | Palmyra .. .. .. | 15 | .. | 165 | |
| | | 14 | Thamalari Muthur tope. | Palmyra, trees, &c. .. | 39 | .. | 209 | |
| | | 16 | Range office compound tope. | Vagai and vembu, &c. .. | 1 | .. | 125 | |
| | | 17 | Odaya Mathur tope .. | Tamarind, &c. .. .. | 4 | .. | .. | |
| | | 18 | Perampatti tope .. .. | Do. .. .. | 6 | .. | .. | |
| | | 19 | Alangayam tope .. .. | Do. .. .. | 2 | .. | .. | |
| | | 20 | Nimmayampatti tope .. | Do. .. .. | 4 | .. | .. | |
| | | 22 | Nallerkadiranampalli Railway bungalow tope. | Thurinji, &c .. .. | 24 | .. | .. | |
| | Námakkal. | 13 | Paramathi (new) tope .. | Tamarind, &c. .. .. | 2 | .. | 110 | |
| | | 15 | Nallur tope .. .. | Do. .. .. | 8 | .. | 210 | |
| | | 18 | Valur do. .. .. | Cocoanut, &c. .. .. | 5 | .. | 230 | |
| | | 19 | Maniyanur tope .. .. | Tamarind, &c. .. .. | 1 | .. | 210 | |
| | | 20 | Manapally do. .. .. | Do. .. .. | 2 | .. | .. | |
| | | 23 | Moganur north (new) tope. | Do. .. .. | 11 | .. | .. | |
| | | 24 | Forest range office tope. | .... | 1 | .. | .. | |
| | | 21 | Moganur old tope .. | Tamarind, &c. .. .. | 4 | .. | .. | |
| | | 22 | Moganur nadu new tope. | Do. .. .. | 8 | .. | .. | |
| | Tiruchengod. | 1 | Palbavy tope .. .. | Do. .. .. | 8 | .. | 446 | |
| | | 3 | Madasappan tope .. .. | Do. .. .. | 42 | .. | 334 | |

(*a*) The topes not required by the department were transferred. Hence a decrease in the number of topes.
(*b*) Rectification of area.

## Annual list of topes—*cont.*

| District. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Central Circle*—cont. | | | | |
| | | | | | ACS. | | RS. | |
| Salem—*cont.* | Tiruchengod—*cont.* | 9 | Arumugathan kuttai tope. | Palmyra, &c. .. .. | 16 | .. | 1,001 | |
| | | 10 | Pavadi tope .. .. | Do. .. .. .. | 3 | .. | .. | |
| | | 13 | Railway station tope .. | Mango, &c. .. .. | 6 | .. | .. | |
| | | 40 | Atur Railway station tope. | Tamarind, &c. .. .. | 3 | .. | 261 | |
| | | 41 | Kodiyampett tope .. | Do. .. .. .. | 10 | .. | 1,369 | |
| | | 42 | Thasasamudram tope .. | Margosa, &c. .. .. | 34 | .. | 2,139 | |
| | | 43 | Pannappatu or Poojaripatti tope. | Tamarind, &c. .. .. | 18 | .. | 1,471 | |
| | | 44 | Chickanampatti tope .. | Mango, &c. .. .. | 15 | .. | 674 | |
| | | 49 | Omalur (old) Mango tope. | Do. .. .. | 7 | .. | 1,084 | |
| | Salem, west.. | 53 | Omalur tope opposite to bungalow. | Margosa, &c. .. .. | 5 | .. | .. | |
| | | 56 | Nangapalli Pulikuttiyeri tope. | Do. .. .. | 10 | .. | 517 | |
| | | 57 | Nangapalli Shandai tope. | Iluppai, &c. .. .. | 3 | .. | 423 | |
| | | 58 | Nangapalli Mecheri or Kuttappatti tope. | Do. .. .. | 16 | .. | 349 | |
| | | 59 | Pachanampatti tope. | Karuvela, &c. .. .. | 6 | .. | 852 | |
| | Atur .. | 1 | Puthragoundanpalayam tope. | Mango, &c. .. .. | 32 | .. | 1,258 | |
| | | 2 | Kututkuttai tope .. | Cocoanut, &c. .. .. | 9 | .. | 1,011 | |
| | | 6 | Animapalayam tope .. | Tamarind, &c. .. .. | 8 | .. | 753 | |
| | | 7 | Thedavur tope .. .. | Do. .. .. | 7 | .. | 571 | |
| | | 9 | Ichampatti tope .. | Cocoanut, &c. .. .. | 3 | .. | 404 | |
| | | 13 | Munjari tope .. .. | Tamarind, &c. .. .. | 2 | .. | 575 | |
| | | 15 | Atur Forest-office tope .. | Margosa (Vembu) &c. .. | .. | .. | 65 | |
| | Uttangarai. | 1 | Samulpatti tope .. .. | Tamarind, &c. .. .. | 9 | .. | 18 | |
| | | 2 | Arbuthnot do. .. .. | Do. .. .. | 35 | .. | 5,388 | |
| | | 4 | Le Fanu's Camping tope.. | Do. .. .. | 4 | .. | 461 | |
| | | 6 | Hanumanthathirtham tope. | Do. .. .. | 11 | .. | 1,222 | |
| | | 8 | Singarapatti tope .. .. | Do. .. .. | 1 | .. | 1,231 | |
| | | 9 | Moganurpatti tope .. | Do. .. .. | 17 | .. | 1,713 | |
| | | 19 | Payyappatti tope .. | Do. .. .. | 11 | .. | 740 | |
| | | 20 | Eachambadi do. .. | Do. .. .. | 7 | .. | 1,372 | |
| | | 23 | Thirthamalai do. .. | Do. .. .. | 8 | .. | 1,599 | |
| | | 24 | Byerinayakampatti tope .. | Do. .. .. | 8 | .. | 1,168 | |
| | | 25 | Kottappatti tope .. | Do. .. .. | 6 | .. | 901 | |
| | | 26 | Chinthalapadi tope .. | Do. .. .. | 3 | .. | 872 | |
| | | 27 | Pulivayur tope .. .. | Do. .. .. | 11 | .. | 684 | |
| | | 29 | Kombur choultry tope .. | Do. .. .. | 2 | .. | 325 | |
| | | 28 | Do. tope .. .. | Do. .. .. | 4 | .. | 731 | |
| | | 30 | Longley's camping tope .. | Margosa, &c. .. .. | 2 | .. | 579 | |
| | | 31 | Lefanu's camping tope at Harur. .. | Tamarind, &c. .. .. | 3 | .. | 164 | |
| | Hosur .. | 1 | Hosur yeri tope .. .. | Casuarina, &c. .. .. | 10 | .. | 588 | |
| | | 4 | Jubee tope .. .. .. | Pungam, &c. .. .. | 4 | .. | 484 | |
| | | 5 | Andivadi A tope .. .. | Casuarina, &c. .. .. | 4 | .. | 256 | |
| | | 6 | Do. B do. .. .. | Naga, &c. .. .. | 8 | .. | 436 | |
| | | 7 | Do. C do. .. .. | Iluppai, &c. .. .. | 12 | .. | 637 | |
| | | 8 | Do. D do. .. .. | Seemai avaram .. .. | 19 | .. | 994 | |
| | | 9 | Do. E do. .. .. | Pungam, &c. .. .. | 3 | .. | 148 | |
| | | 10 | Kattur A tope .. .. | Do. .. .. | 19 | .. | 244 | |
| | | 11 | Do. B do. .. .. | Seemai avaram .. .. | 131 | .. | 1,587 | |
| | | 12 | Do. C do. .. .. | Nagai, &c. .. .. | 20 | .. | 251 | |
| | | 14 | Bommandapalli A tope .. | Pungam, &c. .. .. | 12 | .. | 440 | |
| | | 16 | Do. C do. .. | Mango, &c. .. .. | 28 | .. | 1,063 | |
| | | 17 | Jeegoor tope .. .. | Do. .. .. | 24 | .. | 902 | |
| | | 19 | Naribalkonda tope .. | Do. .. .. | 2 | .. | 127 | |
| | | 20 | Medegarapalli tope A .. | Casuarina, &c. .. .. | 18 | .. | 1,239 | |
| | | 22 | Sanamavoo tope .. .. | Mango, &c. .. .. | 5 | .. | 234 | |
| | | 29 | Samanappalli tope .. | Nagai, &c. .. .. | 12 | .. | 924 | |
| | | 32 | Denkanikota A tope .. | Pungam, &c. .. .. | 6 | .. | 550 | |
| | | 33 | Do. B do. .. | Do. .. .. | 1 | .. | 131 | |
| | | 34 | Do. C do. .. | Do. .. .. | 3 | .. | 315 | |
| | | 35 | Panchatchipuram A tope. | Mango, &c. .. .. | 33 | .. | 1,954 | |
| | | 37 | Kalamangalam tope .. | Vagai, &c. .. .. | 3 | .. | 299 | |
| | | 43 | Denkanikottah Forest office. | .... | 11 | .. | .. | |
| | | 44 | Small plantation in front of Denkanikottah Forest-office. | .... | 1 | .. | .. | |
| | Dharmapuri. | 1 | Pennagaram A tope .. | Tamarind, &c. .. .. | 2 | .. | 313 | |
| | | 2 | Do. B do. .. | Do. .. .. | 3 | .. | 374 | |
| | | 3 | Do. C do. .. | Do. .. .. | 5 | .. | 73 | |
| | | 4 | Do. D do. .. | Mango, &c. .. .. | 1 | .. | 132 | |
| | | 5 | Do. E do. .. | Tamarind, &c. .. .. | 5 | .. | 562 | |
| | | 9 | Nallampalli A tope .. | Do. .. .. | 4 | .. | .. | |

## Annual list of topes—*cont.*

| District. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | *Central Circle*—cont. | | | | |
| | | | | | ACS. | RS. | RS. | |
| Salem—*cont.* | Dharmapuri—*cont.* | 10 | Nallampalli B tope .. | Tamarind, &c. .. .. | 9 | .. | 660 | |
| | | 13 | Sogathur tope .. .. | Do. .. .. | 231 | .. | 2,240 | |
| | | 23 | Karimangalam B or Shandy tope. | Do. .. .. | 6 | .. | 544 | |
| | | 24 | Mahendramangalam tope. | Mango, &c. .. .. | 6 | .. | 689 | |
| | | 29 | Hogamkal tope .. .. | Tamarind, &c. .. .. | 6 | .. | .. | |
| | | 32 | Sogathur B tope .. .. | .... | 26 | .. | .. | |
| | | 1 | Kanakamettu A tope .. | Tamarind, &c. .. .. | 30 | .. | 1,239 | |
| | | 2 | Do. B do. .. | Palmyra, &c .. .. | 12 | .. | 476 | |
| | | 3 | Doulutabad tope .. .. | Do. .. .. | 3 | .. | 453 | |
| | | 5 | School tope .. .. | Tamarind, &c. .. .. | 5 | .. | 994 | |
| | | 8 | Thogarapalli tope .. | Palmyra, &c. .. .. | 8 | .. | 1,266 | |
| | | 9 | Gangavaram tope.. .. | Do. .. .. | 12 | .. | 1,247 | |
| | | 11 | Kottupalli tope .. .. | Tamarind, &c. .. .. | 31 | .. | 2,861 | |
| | | 12 | Chendrapuram Tirupatti tope. | Mango, &c. .. .. | 3 | .. | 628 | |
| | | 13 | Morampalli tope .. .. | Iluppai, &c. .. .. | 12 | .. | 1,247 | |
| | | 16 | Gidayarampatti tope .. | Tamarind, &c. .. .. | 42 | .. | 2,891 | |
| | | 17 | Manjamodu tope .. .. | Palmyra, &c .. .. | 49 | .. | 2,785 | |
| | | 20 | Jambukutiapatti tope .. | Naga, &c. .. .. .. | 48 | .. | 3,280 | |
| | | 21 | Kamandapalli tope .. | Palmyra, &c. .. .. | 2 | .. | 618 | |
| | | 128 | | Total, Salem .. | 1,854 | (*a*) 84 | *96,507 | |
| | Trichinopoly | 1 | Yedamalaipatti .. .. | Mango, &c. .. .. | 4 | .. | 293 | |
| | | 2 | Kariamanickam .. .. | Do. .. .. | 10 | .. | 809 | |
| | | 3 | Todaiyur .. .. .. | Do. .. .. | 4 | .. | 212 | |
| | | 4 | Pichandarkoil .. .. | Do. .. .. | 3 | .. | .. | |
| | | 5 | Nandiar nursery .. .. | Do. .. .. | 5 | .. | .. | |
| | | 6 | Melur .. .. .. | Mango and cocoanut .. | 4 | .. | † .. | |
| | | 7 | Do. .. .. .. | Cocoanut .. .. .. | 2 | .. | † .. | |
| | | 8 | Do. .. .. .. | Bamboo .. .. .. | 3 | .. | † .. | |
| | | 9 | Allur .. .. .. | Sissu .. .. .. | 1 | .. | .. | |
| | | 10 | Jeapuram .. .. .. | Do. .. .. .. | | | | |
| Trichinopoly | Kulittalai .. | 11 | Seerungamani .. .. | Do. .. .. .. | 6 | .. | .. | |
| | | 12 | Kannundayampatti .. | Tamarind .. .. .. | 2 | .. | 168 | |
| | | 13 | Rajendram .. .. | Mango, &c. .. .. | 1 | .. | .. | |
| | Musiri .. | 14 | Nineteenth mile garden on the road from Trichinopoly to Salem. | Do. .. .. | 1 | .. | .. | |
| | | 15 | Twenty-first mile on the road from Trichinopoly to Salem. | Do. .. .. | 3 | .. | 10 | |
| | | 16 | Vellalapatti .. .. | Tamarind .. .. .. | 13 | .. | .. | |
| | Perumbalur.. | 17 | Yesanai .. .. .. | Mango, &c. .. .. | 9 | 57 | 382 | |
| | Udaiyárpálaiyam. | 18 | Vaipur .. .. .. | Do. .. .. | 2 | .. | .. | |
| | | 18 | | Total, Trichinopoly .. | 73 | 57 | 1,874 | |
| | Total, Central Circle .. | 368 | | Total, Central Circle .. | 6,159 | 1,220 | 2,22,696 | |
| | | | | *Southern Circle.* | | | | |
| North Malabar. | Begur Padri range. | 1 | Experimental garden, Manantoddy. | *Eucalyptus, Ceara rubber, Cinchona, Mahoghany, Ficus, Elestica, Dendracalamus Brandesse.* | 20 | 400 +(*a*) 257 | 4,584 | |
| | | 2 | Tholpatty orange topes .. | Orange trees .. .. | .. | .. | .. | |
| | | | | Total, North Malabar .. | 20 | 657 | 4,584 | |
| South Malabar. | Palghat .. | 1 | Pulliampalli .. .. | Mango, *pungamia Glabra, Tamarindus Indica Terminalia, Panitulata and Engena Jambolana.* | 20 | .. | 9 | |
| | | | | Total, South Malabar .. | 20 | .. | 9 | |

* Excludes cost of topes transferred to other departments.

† Two topes of an aggregate area of about 12 acres were excluded by transfer to other heads and the Mélúr topes which were hitherto shown under cultural operations have been transferred to this list with their correct areas.

(*a*) Added as per Accountant-General's statement, F. No. 59.

## Annual list of topes—*cont.*

| District. | Taluk or Range. | No. | Name of tope. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | *Southern Circle*—cont. | | ACS. | RS. | RS. | |
| Coimbatore (North). | Erode .. | 1 | Odathalampathi .. .. | Sandalwood .. .. | 16 | 154 | .. | Included in the tracts proposed for reservation. |
| | | 2 | Nadupatti .. .. .. | *Acacia, Albizzia Amara and Lebbek, Melia and Satinwood.* | 194 | | | |
| | | 3 | Attavanai .. .. .. | Palmyra trees .. .. | 52 | | | |
| | | 4 | Vellodu .. .. .. | Do. .. .. | 55 | | | |
| | Bhavâni .. | 5 | Nerinjipett .. .. | *Acacia Arabica* .. .. | *.. | | | |
| | | (a)5 | | Total, Coimbatore (North) .. | 317 | 154 | * .. | |
| Coimbatore (South). | Udamalpet. | 1 | Avanasipalayam .. .. | Palmyra .. .. .. | 8 | .. | 2,061 | |
| | | 2 | Kattur .. .. .. | Do. .. .. .. | 8 | .. | .. | |
| | | 3 | Naranapuram .. .. | Do. .. .. .. | 6 | .. | .. | |
| | | 4 | Pongalur .. .. .. | Tamarind .. .. .. | 1 | .. | .. | |
| | | 5 | Karadibani .. .. | Do. .. .. .. | 6 | .. | .. | |
| | | 6 | Sulur .. .. .. | Do. .. .. .. | 5 | .. | 188 | |
| | | 7 | Vadugapalayam .. .. | Pasturage .. .. .. | 29 | .. | 238 | |
| | | 8 | Kethanur .. .. .. | Do. .. .. .. | 13 | .. | .. | |
| | | 9 | Chitambalam .. .. | Do. .. .. .. | 11 | .. | .. | |
| | | 10 | Appanaikenpatti .. .. | Do. .. .. .. | 10 | .. | .. | |
| | | 11 | Selakarichal .. .. | Do. .. .. .. | 5 | .. | .. | |
| | | 12 | Oddarpalayam .. .. | Do. .. .. .. | 7 | .. | .. | |
| | Méttupalaiyam. | 13 | Avanashi .. .. .. | Palmyra .. .. .. | 70 | .. | 2,186 | |
| | | 14 | Avanashilingampalayam .. | Do. .. .. .. | 13 | .. | 323 | |
| | | 15 | Kandiyancoil .. .. | Do. .. .. .. | 16 | .. | .. | |
| | | 16 | Naduvacheri .. .. | Tamarind .. .. .. | 5 | .. | .. | |
| | | 17 | Mathapur .. .. .. | Pasturage .. .. .. | 5 | .. | .. | |
| | | 18 | Nilambur .. .. .. | Do. .. .. .. | 10 | .. | .. | |
| | | 19 | Irugur .. .. .. | Palmyra .. .. .. | 19 | .. | 254 | |
| | | 20 | Kandiankovil .. .. | Tamarind .. .. .. | 8 | .. | .. | |
| | Bolampatti. | 21 | Komarapalayam .. .. | Palmyra .. .. .. | 8 | .. | .. | |
| | | 22 | Chitrachavadi .. .. | Do. .. .. .. | 2 | .. | .. | |
| | | 23 | Valankolam tope at Coimbatore. | Cocoanut .. .. .. | 2 | .. | .. | |
| | | 23 | | Total, Coimbatore (South) .. | 267 | .. | 5,250 | |
| Madura.. | .... | (b) 24 | .... | .... | 91 | .. | 18,893 | |
| | *Tinnevelly Sub-Range.* | | | | | | | |
| Tinnevelly. | Tinnevelly taluk. | 1 | Nursery garden near Sulochanam bridge. | Mango, tamarind, gooseberry and palmyras. | 3 | 73 | 1,166 | As per last year's list the number of topes was 28 |
| | | 2 | Huzur Cutcherry compound. | Do. do. | 20 | .. | .. | Deduct topes transferred from the forest management .. 21 |
| | *Central Range.* | | | | | | | |
| | Sankaranayinárkóyil. | 3 | Vasudevanallur tope .. | Bamboos .. .. .. | 1 | .. | 553 | Balance .. 7 |
| | | 4 | Do. river bank | Mango and banian | 3 | .. | | Added during the year in Tenkási taluk.. .. 2 |
| | Tenkási taluk. | 5 | Kuthalam tope .. .. | Mango, jack and illuppai. | | .. | .. | Total .. 9 |
| | | 6 | Melagaram tope .. .. | Mango, jack and vengai.. | 40 | 10 | 10 | |
| | *Ottappidaram Sub-Range.* | | | | | | | |
| | Ottappidáram taluk. | 7 | Sevandakulam .. .. | Casuarina and jack .. | 5 | .. | 240 | |
| | | 8 | Ottappidáram cusbah .. | Mango, bamboos illuppai and vagai. | 6 | .. | 111 | |
| | *Nángunéri Sub-Range.* | | | | | | | |
| | Nángunéri taluk. | 9 | Kalakad channel bank .. | Tamarind and nim .. | 6 | .. | 138 | |
| | | 9 | | Total, Tinnevelly .. | 84 | 83 | 2,218 | |
| Total, Southern Circle .. | | 64 | | Total, Southern Circle .. | 799 | 894 | 30,954 | |
| Grand Total, Presidency. | | 605 | | Grand Total, Presidency.. | 10,513 | 3,726 | 2,79,249 | |

* Not reported. Retained for a future depôt.

(a) The decrease in the number of topes is not explained by the Collector.

(b) No information is available when and under what circumstances they were brought under the control of the Forest Department. Practically they are not now seen to and steps will be taken to hand them over to the Land Revenue Department as it is not worth while keeping them under reservation.

## Form No. 55.

*Forest Department, Madras Presidency.*

Outturn (in cubic feet, solid) of timber and fuel during the year 1895–96 and agency of exploitation.

| District. | Timber in the rough logs. | | | | | Timber in the rough poles. | | | | | Sawn or squared timber. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government. | Purchasers. | Free-grantees. | Right-holders. | Total. | Government. | Purchasers. | Free-grantees. | Right-holders. | Total. | Government. | Purchasers. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| *Northern Circle.* | | | | | | | | | | | | |
| Ganjám | 14,998 | 52,288 | .. | .. | 67,286 | 70 | 81,203 | 2,116 | .. | 83,389 | .. | 860 |
| Vizagapatam | 721 | 27,823 | 2,120 | .. | 30,664 | 38 | 48,583 | .. | .. | 48,621 | .. | 2 |
| Gódávari | .. | 222,403 | 36 | .. | 222,439 | 148 | 15,067 | 973 | .. | 16,188 | .. | 12,757 |
| Kistna | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kurnool | 536 | 239,212 | 10,050 | * .. | 249,798 | 45 | .. | .. | * .. | 45 | 4,620 | 84,153 |
| Bellary | .. | 10,660 | .. | .. | 10,660 | 53,008 | .. | 152 | .. | 53,160 | .. | .. |
| Anantapur | .. | 21,185 | .. | .. | 21,185 | .. | .. | 211 | .. | 211 | .. | 656 |
| Total | 16,255 | 573,571 | 12,206 | | 602,032 | 53,309 | 144,853 | 3,452 | .. | 201,614 | 4,620 | 98,428 |
| *Central Circle.* | | | | | | | | | | | | |
| Cuddapah | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8,105 |
| Nellore | 2,143 | 184,528 | 28,144 | .. | 214,815 | .. | .. | .. | .. | .. | .. | 3,644 |
| Chingleput | .. | 33,738 | .. | .. | 33,738 | .. | .. | .. | .. | .. | .. | 2,591 |
| North Arcot | .. | .. | .. | .. | .. | 3,217 | .. | .. | .. | 3,217 | .. | .. |
| South Arcot | 2,133 | .. | .. | .. | 2,133 | .. | .. | .. | .. | .. | .. | .. |
| Salem | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly | .. | 84,075 | 4,337 | .. | 88,412 | .. | .. | .. | .. | .. | .. | 432 |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | 4,276 | 302,341 | 32,481 | .. | 339,098 | 3,217 | .. | .. | .. | 3,217 | .. | 14,772 |
| *Southern Circle.* | | | | | | | | | | | | |
| South Canara | 7,415 | 10,384 | 975 | .. | 18,774 | .. | .. | .. | .. | .. | 941 | .. |
| North Malabar | 50,700 | 2,102 | 454 | .. | 53,256 | 18 | 576 | .. | .. | 594 | 2,233 | .. |
| South Malabar | 85,780 | 40,002 | .. | .. | 125,782 | 12,912 | .. | .. | 3,201 | 16,113 | 1,503 | 3,058 |
| Nilgiris | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 30,608 | .. |
| North Coimbatore | .. | .. | .. | .. | .. | .. | 7,628 | .. | .. | 7,628 | 3,216 | 10,537 |
| South Coimbatore | .. | 7,354 | .. | .. | 7,354 | 3,056 | .. | .. | .. | 3,056 | 55,473 | 8,541 |
| Madura | 14 | 6,907 | .. | .. | 6,921 | .. | .. | 235 | .. | 235 | 1,027 | 2,690 |
| Tinnevelly | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 11,285 | 10,202 |
| Total | 143,909 | 66,749 | 1,429 | .. | 212,087 | 15,986 | * 8,204 | * 235 | 3,201 | 27,626 | 118,286 | 35,028 |
| Grand Total | 164,440 | 942,661 | 46,116 | .. | 1,153,217 | 72,512 | 153,057 | 3,687 | 3,201 | 232,457 | 122,906 | 148,228 |

* Not known.

Outturn (in cubic feet, solid) of timber and fuel during the year 1895–96 and agency of exploitation—*cont.*

| District. | Sawn or squared timber—*cont.* | | | Miscellaneous. | | | | | Fuel. | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Free-grantees. | Right-holders | Total. | Govern-ment. | Purchas-ers. | Free-grantees. | Right-holders. | Total. | Government. | Purchasers. | Free-grantees. | Right-holders. | Total. | Outturn. |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| *Northern Circle.* | | | | | | | | | | | | | | |
| Ganjám | .. | .. | 860 | 5,685 | 33,160 | .. | .. | 38,845 | .. | 705,727 | .. | .. | 705,727 | 896,107 |
| Vizagapatam | .. | .. | 2 | .. | 3,737 | .. | .. | 3,737 | 7,845 | 499,825 | .. | .. | 507,670 | 590,694 |
| Gódávari | .. | .. | 12,757 | .. | .. | 400 | .. | 400 | 50 | 646,181 | 5,000 | .. | 651,231 | 903,015 |
| Kistna | .. | .. | .. | 5,270 | 277,317 | 6,714 | .. | 289,301 | 3,348 | 462,510 | .. | .. | 465,858 | 755,159 |
| Kurnool | .. | * .. | 88,773 | 591 | .. | .. | * .. | 591 | 17,000 | 424,575 | .. | * .. | 441,575 | 780,782 |
| Bellary | .. | .. | .. | .. | 279,512 | .. | .. | 279,512 | 396,045 | 405,600 | .. | .. | 801,645 | 1,144,977 |
| Anantapur | .. | .. | 656 | .. | 16,816 | .. | .. | 16,816 | .. | 115,706 | .. | .. | 115,706 | 154,574 |
| Total | .. | .. | 103,048 | 11,546 | 610,542 | 7,114 | .. | 629,202 | 424,288 | 3,260,124 | 5,000 | .. | 3,689,412 | 5,225,308 |
| *Central Circle.* | | | | | | | | | | | | | | |
| Cuddapah | .. | .. | 8,105 | 42,783 | 215,924 | .. | .. | 258,707 | 115,049 | 809,072 | .. | .. | 924,121 | 1,190,933 |
| Nellore | .. | .. | 3,644 | .. | .. | .. | .. | .. | 199,700 | 207,580 | 584 | .. | 407,864 | 626,323 |
| Chingleput | .. | .. | 2,691 | .. | 16,434 | 1,840 | .. | 18,274 | 1,538 | 104,360 | 178 | .. | 106,076 | 160,679 |
| North Arcot | .. | .. | .. | 49 † 13 | 10,751 | 8,278 | .. | 19,091 | 249,456 | 381,539 | .. | .. | 630,995 | 653,303 |
| South Arcot | .. | .. | .. | † 2 | 29,201 | .. | .. | 29,203 | 91,562 | 543,341 | 400 | .. | 635,303 | 666,639 |
| Salem | .. | .. | .. | 1,137 † 1,313 | 173,245 | 1,932 | .. | 177,627 | 578,840 | 595,820 | .. | .. | 1,174,660 | 1,352,287 |
| Trichinopoly | .. | .. | 432 | .. | .. | .. | .. | .. | 259,437 | 1,530,536 | 160 | .. | 1,790,133 | 1,878,977 |
| Tanjore | .. | .. | .. | .. | 21,700 | .. | .. | 21,700 | 6,420 | 302,220 | .. | .. | 308,640 | 330,340 |
| Total | .. | .. | 14,772 | 45,297 | 467,255 | 12,050 | .. | 524,602 | 1,502,002 | 4,474,468 | 1,322 | .. | 5,977,792 | 6,859,481 |
| *Southern Circle.* | | | | | | | | | | | | | | |
| South Canara | .. | .. | 941 | .. | .. | .. | .. | .. | 12,146 | 719,360 | 3,000 | .. | 734,506 | 754,221 |
| North Malabar | .. | .. | 2,233 | .. | 45 | .. | .. | 45 | .. | 864 | 2,752 | .. | 3,616 | 59,744 |
| South Malabar | .. | .. | 14,561 | 135 | 14,485 | .. | .. | 14,620 | 753 | 127,609 | .. | .. | 128,362 | 299,438 |
| Nilgiris | .. | .. | 32,608 | † 614 | 13,784 | 400 | 625 | 15,423 | 355,564 | 19,007 | .. | 45 | 374,616 | 422,647 |
| North Coimbatore | .. | 351 | 14,104 | † 764 | .. | .. | .. | 764 | 3,337 | 163,290 | .. | .. | 166,627 | 189,123 |
| South Coimbatore | .. | .. | 64,014 | 3,987 | 6,048 | .. | .. | 10,035 | 176,650 | 752,976 | .. | .. | 929,626 | 1,014,085 |
| Madura | .. | .. | 3,717 | 105 | 16,054 | .. | .. | 16,159 | 53,727 | 214,382 | .. | .. | 268,109 | 295,141 |
| Tinnevelly | .. | 728 | 22,215 | 1,170 | 5,722 | 232 | .. | 7,124 | 369,094 | 1,078,845 | .. | .. | 1,447,939 | 1,477,278 |
| Total | .. | 1,079 | 154,393 | 6,775 | 56,138 | 632 | 625 | 64,170 | 971,271 | 3,076,333 | 5,752 | 45 | 4,053,401 | 4,511,677 |
| Grand Total | .. | 1,079 | 272,213 | 63,618 | 1,133,935 | 19,796 | 625 | 1,217,974 | 2,897,561 | 10,810,925 | 12,074 | 45 | 13,720,605 | 16,596,466 |

* Not known. † Sandalwood.

## Annual Form No. 56.

*Forest Department, Madras Presidency.*

Outturn of minor forest produce during the year 1895–96.

| District. | Description of produce. | Produce removed or utilized. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Northern Circle.* | | | Rs. | No. | Rs. | | Rs. | | Rs. | No. | Rs. |
| Ganjám .. .. .. | Bamboos .. .. .. .. | .. | .. | 1,777,270 | 7,215 | .. | .. | .. | .. | 1,777,270 | 7,215 |
| | Nux vomica .. .. .. .. | .. | .. | Carts. 2 | 3 | .. | .. | .. | .. | Carts. 2 | 3 |
| | Myrobolam .. .. .. .. | .. | .. | 13 | 20 | .. | .. | .. | .. | 13 | 20 |
| | Barks .. .. .. .. .. | .. | .. | 8 | 60 | .. | .. | .. | .. | 8 | 60 |
| | Stone, gravel and earth .. .. | .. | .. | 6,070 | 408 | .. | .. | .. | .. | 6,070 | 408 |
| | Leaves .. .. .. .. | .. | .. | 739 | 230 | .. | .. | .. | .. | 739 | 230 |
| | Other produce .. .. .. | .. | .. | Mds. 15 | 30 | .. | .. | .. | .. | Mds. 15 | 30 |
| | By lease .. .. .. .. | .. | .. | .. | 2,740 | .. | * 400 | .. | .. | .. | 3,140 |
| | Total .. | .. | .. | .. | 10,706 | .. | 400 | .. | .. | .. | 11,106 |
| Vizagapatam .. .. | Bamboos .. .. .. .. | .. | .. | No. 1,803,600 | 11,057 | .. | .. | .. | .. | No. 1,803,600 | 11,057 |
| | Grass .. .. .. .. .. | Mds. 50,354 | 214 | .. Mds. 11,487 | 9,709 | .. | .. | .. | .. | Mds. 50,354 13,275 | 9,923 |
| | Other produce .. .. .. | 1,788 | | C. L. 5,423 | | .. | .. | .. | .. | C. L. 5,423 | |
| | Tamarind .. .. .. .. | .. | .. | Mds. 87,523 | | .. | .. | .. | .. | Mds. 87,523 | |
| | Gallnuts .. .. .. .. | .. | .. | 17,760 | | .. | .. | .. | .. | 17,760 | |
| | Barks .. .. .. .. .. | .. | .. | 22,825 | | .. | .. | .. | .. | 22,825 | |
| | Total .. | .. | 214 | .. | 20,766 | .. | .. | .. | .. | .. | 20,980 |
| Gódávari .. .. .. | Bamboos .. .. .. .. | .. | .. | No. 9,470,523 | 51,103 | .. | .. | .. | .. | No. 9,470,523 | 51,103 |
| | Stone, gravel &c. .. .. .. | .. | .. | C. L. 1,492 | 3,046 | .. | .. | .. | .. | C. L. 1,492 | 3,046 |
| | Grass .. .. .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | Leaves .. .. .. .. | .. | .. | 87 | | .. | .. | .. | .. | 87 | |
| | Bark .. .. .. .. .. | .. | .. | 45 | | .. | .. | .. | .. | 45 | |
| | Tamarind .. .. .. .. | .. | .. | Mds. 1,228 | | .. | .. | .. | .. | Mds. 1,228 | |
| | Other produce .. .. .. | .. | .. | 1,119 | | .. | .. | .. | .. | 1,119 | |
| | Lease .. .. .. .. .. | .. | .. | .. | 2,330 | .. | .. | .. | .. | .. | 2,330 |
| | Total .. | .. | .. | .. | 56,479 | .. | .. | .. | .. | .. | 56,479 |

* Local khonds were allowed to enjoy free the produce in certain topes.

## Outturn of minor forest produce during the year 1895–96—*cont.*

| District. | Description of produce. | Produce removed or utilized. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Northern Circle*—cont. | | | RS. | NO. | RS. | | RS. | | RS. | NO. | RS. |
| Kistna .. .. .. | Bamboos .. .. .. .. | .. | .. | 168,820 | 568 | .. | .. | .. | .. | 168,820 | 568 |
| | Fruits and vegetables .. .. | MDS. 14 | 34 | .. | .. | .. | .. | .. | .. | MDS. 14 | 34 |
| | Palmyra leaves .. .. .. | .. | .. | 1,514,000 | 17,414 | NO. 12,000 | 12 | .. | .. | NO. 1,526,000 | 17,426 |
| | Lease .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| | Total .. | .. | 34 | .. | 17,982 | .. | 12 | .. | .. | .. | 18,028 |
| Kurnool .. .. .. | Bamboos .. .. .. .. | NO. 5,280 | 3 | NO. 6,498,000 | 20,312 | .. | .. | .. | .. | NO. 6,503,280 | 20,315 |
| | Tamarind .. .. .. .. | MDS. 8 | 1 | .. | 57,508 | .. | .. | .. | .. | MDS. 8 | 1 |
| | Other produce .. .. .. | 91 | 54 | .. | | .. | .. | .. | .. | 91 | 54 |
| | Lease .. .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | 57,508 |
| | Grass .. .. .. .. .. | .. | .. | .. | .. | C. L. 188 | 59 | .. | .. | C. L. 188 | 59 |
| | Total .. | .. | 58 | .. | 77,820 | .. | 59 | .. | .. | .. | 77,937 |
| Bellary .. .. .. | Bamboos .. .. .. .. | NO. 1,649 | 145 | NO. 91,800 | 1,818 | NO. 646 | 13 | .. | .. | NO. 94,095 | 1,976 |
| | Grass and other produce .. .. | MDS. 2,908 | 587 | C. L. .. | .. | C. L. 32 | 10 | .. | .. | MDS. 2,908 / C. L. 32 | 597 |
| | Barks and leaves .. .. .. | 45 | 13 | Auction. | 1,33,799 | 192 | 60 | .. | .. | MDS. 45 / C. L. 192 and auction. | 1,33,872 |
| | Stones, gravel, earth, &c. .. .. | .. | .. | C. L. 1,440 | | .. | .. | .. | .. | 1,440 | |
| | By auction of other produce .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | Total .. | .. | 745 | .. | 1,35,617 | .. | 83 | .. | .. | .. | 1,36,445 |
| Anantapur .. .. | Bamboos .. .. .. .. | .. | .. | NO. 9,690 | 217 | .. | .. | .. | .. | NO. 9,690 | 217 |
| | Leaves .. .. .. .. | .. | .. | C. L. 406 | 86,808 | .. | .. | .. | .. | C. L. 406 | 86,808 |
| | Stones .. .. .. .. | .. | .. | 422 | | | | | | 422 | |
| | Barks .. .. .. .. .. | .. | .. | 5 | | | | | | 5 | |
| | By lease .. .. .. .. | .. | .. | .. | | | | | | .. | |
| | Total .. | .. | .. | .. | 87,025 | .. | .. | .. | .. | .. | 87,025 |
| | Total, Northern Circle .. | .. | 1,051 | .. | 4,06,395 | .. | 554 | .. | .. | .. | 4,08,000 |

## Outturn of minor forest produce during the year 1895-96—*cont.*

| District. | Description of produce. | Produce removed or utilized. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Central Circle.* | | NO. | RS. | NO. | RS. | | RS. | | RS. | NO. | RS. |
| Cuddapah .. .. .. | Bamboos .. .. .. .. | 941 | 61 | 328,707 | 7,469 | 450 | 6 | .. | .. | 330,131 | 7,536 |
| | | MDS. | | | | | | | | MDS. | |
| | Gall nuts .. .. .. .. | 837 | 813 | .. | .. | .. | .. | .. | .. | 837 | 813 |
| | Tamarind .. .. .. .. | 38 | 119 | .. | .. | .. | .. | .. | .. | 38 | 119 |
| | Other produce .. .. .. | 469 | | .. | .. | .. | .. | .. | .. | 469 | |
| | | | | C. L. | | C. L. | | | | C. L. | |
| | Leaves .. .. .. .. | .. | .. | 24,903 | | 436 | 136 | .. | .. | 25,339 | |
| | | | | | | | | | | C.L. | |
| | Stones .. .. .. .. | .. | .. | 2,618 | 83,001 | .. | .. | .. | .. | 2,618 | 83,189 |
| | By lease .. .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | | | | | | C. L. | | | | C. L. | |
| | Grass .. .. .. .. | .. | .. | .. | | 167 | 52 | .. | .. | 167 | |
| | Total .. | .. | 993 | .. | 90,470 | .. | 194 | .. | .. | .. | 91,657 |
| Nellore .. .. .. | Bamboos .. .. .. .. | .. | .. | NO. 4,374 | 176 | .. | .. | .. | .. | NO. 4,374 | 176 |
| | | MDS. | | | | | | | | MDS. | |
| | Nux vomica .. .. .. | 1,462 | 730 | .. | .. | .. | .. | .. | .. | 1,462 | 730 |
| | Soap nuts .. .. .. .. | 1,782 | 1,335 | .. | .. | .. | .. | .. | .. | 1,782 | 1,325 |
| | Tamarind .. .. .. .. | 350 | 90 | .. | .. | .. | .. | .. | .. | 350 | 90 |
| | Other produce .. .. .. | 147 | 135 | .. | 38,321 | .. | 408 | .. | .. | 147 | 38,864 |
| | Total .. | .. | 2,290 | .. | 38,497 | .. | 408 | .. | .. | .. | 41,195 |
| Chingleput .. .. | Bamboos .. .. .. .. | .. | .. | NO. 2,535 | 146 | .. | .. | .. | .. | NO. 2,535 | 146 |
| | | | | C. L. | | | | | | C.L. | |
| | Stone, gravel and earth .. .. | .. | .. | 609,150 | 7,307 | .. | .. | .. | .. | 609,150 | 7,307 |
| | Leaves .. .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | By lease .. .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | Total .. | .. | .. | .. | 7,453 | .. | .. | .. | .. | .. | 7,453 |
| North Arcot .. .. | Bamboos .. .. .. .. | NO. 11,566 | 1,807 | NO. 2,895,414 | 39,440 | .. | .. | .. | .. | NO. 2,906,980 | 41,247 |
| | Other produce .. .. .. | 193 | 39 | .. | 49,467 | .. | .. | .. | .. | 193 | 49,506 |
| | | | | | | C. L. | | | | C. L. | |
| | Thatching grass .. .. .. | .. | .. | .. | .. | 230 | 72 | .. | .. | 230 | 72 |
| | | .. | 1,846 | .. | 88,907 | .. | 72 | .. | .. | .. | 90,825 |

## Outturn of minor forest produce during the year 1895-96—*cont.*

| District. | Description of produce. | Produce removed or utilized. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Central Circle—cont.* | | | Rs. | No. | Rs. | | Rs. | | | No. | Rs. |
| South Arcot .. .. | Bamboos .. .. .. .. | .. | .. | 47,700 | 2,751 | .. | .. | .. | .. | 47,700 | 2,751 |
| | *Stone, gravel and earth* .. .. | .. | .. | Tons. 5,795 | 21,536 | .. | .. | .. | .. | Tons. 5,795 | 21,536 |
| | By lease .. .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | Total .. | .. | .. | .. | 24,287 | .. | .. | .. | .. | .. | 24,287 |
| Salem .. .. .. | Bamboos .. .. .. .. | No. 3,940 | 344 | No. 7,747,485 | 43,772 | .. | .. | .. | .. | No. 7,751,425 | 44,116 |
| | Manure leaves .. .. .. | .. | .. | Tons. 10,347 | 40,660 | .. | .. | .. | .. | 10,347 | 40,660 |
| | By lease .. .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | Total .. | .. | 344 | .. | 84,432 | .. | .. | .. | .. | .. | 84,776 |
| Trichinopoly .. .. | Bamboos .. .. .. .. | .. | .. | No. 669,048 | 3,386 | No. 5,958 | 48 | .. | .. | 675,006 | 3,434 |
| | Other produce .. .. .. | Mds. 188 | 80 | .. | 43,552 | .. | .. | .. | .. | | 43,632 |
| | Total .. | .. | 80 | .. | 46,938 | .. | 48 | .. | .. | .. | 47,066 |
| Tanjore .. .. .. | Bamboos .. .. .. .. | .. | .. | 2,863 | 102 | .. | .. | .. | .. | No. 2,863 | 102 |
| | Grass .. .. .. .. | .. | .. | .. | 5,014 | .. | .. | .. | .. | .. | 5,014 |
| | Other produce .. .. .. | .. | .. | .. | | .. | .. | .. | .. | .. | |
| | Total .. | .. | .. | .. | 5,116 | .. | .. | .. | .. | .. | 5,116 |
| | Total, Central Circle .. | .. | 5,553 | .. | 3,86,100 | .. | 722 | .. | .. | .. | 3,92,375 |
| *Southern Circle.* | | | | | | | | | | | |
| South Canara .. .. | Bamboos .. .. .. .. | .. | .. | 54,770 | 1,474 | .. | .. | .. | .. | 54,770 | 1,474 |
| | Catechu .. .. .. .. | Mds. 1,391 | 7,383 | .. | .. | .. | .. | .. | .. | Mds. 1,391 | 7,383 |
| | Other produce .. .. .. | 299 | 363 | .. | 19,490 | .. | 50 | .. | .. | .. | 19,903 |
| | Total .. | .. | 7,746 | .. | 20,964 | .. | 50 | .. | .. | .. | 28,760 |

## Outturn of minor forest produce during the year 1895-96—*cont.*

| District. | Description of produce. | Produce removed or utilized. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Southern Circle*—cont. | | | RS. | NO. | RS. | NO. | RS. | | RS. | NO. | RS. |
| North Malabar .. .. | Bamboos .. .. .. .. | .. | .. | 2,044 | 41 | 47,775 | 717 | .. | .. | 49,819 | 758 |
| | Gum kino .. .. .. .. | MDS. 134 | 1,420 | .. | .. | .. | .. | .. | .. | MDS. 134 | 1,420 |
| | Coffee .. .. .. .. .. | SEERS 187 | | .. | .. | .. | .. | .. | .. | SEERS 187 | |
| | Elephant tusks .. .. .. | LB. 19 | 76 | .. | .. | .. | .. | .. | .. | LB. 19 | 76 |
| | Other produce .. .. .. | .. | 13 | .. | 1,295 | .. | 6 | .. | .. | .. | 1,314 |
| | Total .. | .. | 1,509 | .. | 1,336 | .. | 723 | .. | .. | .. | 3,568 |
| South Malabar .. .. | Bamboos .. .. .. .. | NO. 2,931 | 503 | NO. 181,900 | 1,920 | .. | .. | .. | .. | NO. 184,831 | 2,423 |
| | Honey .. .. .. .. | LB. 1,353 | 642 | LB. 141 | 3,893 | .. | .. | .. | .. | LB. 1,494 | 4,539 |
| | Wax .. .. .. .. .. | 293 | | 31 | | .. | .. | .. | .. | 324 | |
| | Dammer .. .. .. .. | 5,195 | | 250 | | .. | .. | .. | .. | 5,445 | |
| | Cardamoms .. .. .. | 66 | | 50 | | .. | .. | .. | .. | 116 | |
| | Cheenikai .. .. .. | 1,750 | | 7,750 | | .. | .. | .. | .. | 9,500 | |
| | Nux vomica .. .. .. | 100 | | .. | | .. | .. | .. | .. | 100 | |
| | Deer horns .. .. .. | 2 | | .. | | .. | .. | .. | .. | 2 | |
| | Other produce .. .. | .. | .. | .. | | .. | 4 | .. | .. | .. | |
| | Total .. | .. | 1,145 | .. | 5,813 | .. | 4 | .. | .. | .. | 6,962 |
| Nilgiris .. .. .. | Bamboos .. .. .. .. | .. | .. | NO. 301,959 | 3,358 | .. | .. | .. | .. | NO. 301,959 | 3,358 |
| | Horns .. .. .. .. | LB. 367 | 121 | .. | .. | .. | .. | .. | .. | LB. 367 | 121 |
| | Wax .. .. .. .. | 50 | 37 | .. | .. | .. | .. | .. | .. | 50 | 37 |
| | Eleph nt tusks .. .. | 16 | 16 | .. | .. | .. | .. | .. | .. | 16 | 16 |
| | Dammer .. .. .. .. | 5 | 1 | .. | .. | .. | .. | .. | .. | 5 | 1 |
| | Gallnuts .. .. .. .. | MDS. 933 | 874 | .. | .. | .. | .. | .. | .. | MDS. 933 | 874 |
| | Sheakoy .. .. .. .. | 32 | 112 | .. | .. | .. | .. | .. | .. | 32 | 112 |
| | Bark .. .. .. .. .. | 5 | 45 | .. | .. | .. | .. | .. | .. | 5 | 45 |
| | Tamarind .. .. .. .. | 244 | 226 | .. | .. | .. | .. | .. | .. | 244 | 226 |
| | Other produce .. .. .. | .. | .. | .. | 1,609 | .. | .. | .. | .. | .. | 1,609 |
| | Total .. | .. | 1,432 | .. | 4,967 | .. | .. | .. | .. | .. | 6,399 |

## Outturn of minor forest produce during the year 1895-96—*cont.*

| District. | Description of produce. | Produce removed or utilized. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Southern Circle*—cont. | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| North Coimbatore .. | Bamboos .. .. .. .. | NO. 6,040 | 92 | NO. 1,156,290 | 7,217 | NO. 2,520 | 45 | .. | .. | NO. 1,164,850 | 7,354 |
| | Sambur horns .. .. .. | MDS. LB. 144 13 | 725 | .. | .. | .. | .. | .. | .. | MDS. LB 144 13 | 725 |
| | Deer horns .. .. .. .. | 9 16 | 190 | .. | .. | .. | .. | .. | .. | 9 16 | 190 |
| | Elephant tusks .. .. .. | 1 26 | 147 | .. | .. | .. | .. | .. | .. | 1 26 | 147 |
| | Other produce .. .. .. | .. | 5 | .. | 28,174 | .. | 1 | .. | .. | .. | 28,180 |
| | Total .. | .. | 1,159 | .. | 35,391 | .. | 46 | .. | .. | .. | 36,596 |
| South Coimbatore .. | Bamboos .. .. .. .. | NO. 24,720 | 144 | 291,800 | 4,474 | .. | .. | .. | .. | No. 316,520 | 4,618 |
| | Honey .. .. .. .. | MDS. 60 | 94 | .. | .. | .. | .. | .. | .. | MDS. 60 | 94 |
| | Deer horns .. .. .. .. | 6 | 15 | .. | .. | .. | .. | .. | .. | 6 | 15 |
| | Sambur horns .. .. .. | 12 | 18 | .. | .. | .. | .. | .. | .. | 12 | 18 |
| | Dammer .. .. .. .. | 3 | 5 | .. | .. | .. | .. | .. | .. | 3 | 5 |
| | Wax .. .. .. .. .. | 10 | 120 | .. | .. | .. | .. | .. | .. | 10 | 120 |
| | Gallnuts .. .. .. .. | 1 | 1 | .. | .. | .. | .. | .. | .. | 1 | 1 |
| | Stones, &c. .. .. .. .. | .. | .. | C. L. 1,130 | 12,643 | .. | .. | .. | .. | C. L. 1,130 | 12,676 |
| | Other produce .. .. .. | 23 | 33 | .. | | .. | .. | .. | .. | .. | |
| | Total .. | .. | 430 | .. | 17,117 | .. | .. | .. | .. | .. | 17,547 |
| Madura .. .. .. | Bamboos .. .. .. .. | .. | .. | NO. 32,947 | 2,579 | .. | .. | .. | .. | NO. 32,947 | 2,579 |
| | Other produce .. .. .. | .. | .. | .. | 28,371 | .. | .. | .. | .. | .. | 28,371 |
| | Total .. | .. | .. | .. | 30,950 | .. | .. | .. | .. | .. | 30,950 |
| Tinnevelly .. .. | Bamboos .. .. .. .. | .. | .. | NO. 15,940 | 1,063 | .. | .. | .. | .. | NO. 15,940 | 1,063 |
| | Other produce .. .. .. | MDS. 58 | 43 | .. | 22,153 | .. | .. | .. | 457 | .. | 22,653 |
| | Total .. | .. | 43 | .. | 23,216 | .. | .. | .. | 457 | .. | 23,716 |
| | Total, Southern Circle .. | .. | 13,464 | .. | 1,39,754 | .. | 823 | .. | 457 | .. | 1,54,498 |
| | Grand total .. | .. | 20,068 | .. | 9,32,249 | .. | 2,099 | .. | 457 | .. | 9,54,873 |

## Form No. 57.

*Forest Department, Madras Presidency.*

Account of Timber and other Produce cut or collected by Government Agency and brought to depôts, sold locally or otherwise disposed of during the year 1895-96.

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. | Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **BALANCE AT COMMENCEMENT OF THE YEAR.** | | | | | **REMOVED BY PURCHASERS FROM DEPÔTS.** | | | | |
| Northern Circle. | | | | | Northern Circle. | | | | |
| *Timber.* | | | | | Timber— | | | | |
| Ganjám district— | | | | | Teak .. .. .. | .. | 76 | | |
| Sâl .. .. .. .. | .. | 5,136 | .. | 5,556 | Vengai .. .. .. | .. | 1,238 | .. | 22,741 |
| Miscellaneous timber .. | .. | 420 | | | Sâl .. .. .. | .. | 17,620 | | |
| Kurnool district— | | | | | Miscellaneous timber .. | .. | 3,807 | | |
| Teak .. .. .. | .. | 48 | | | Fuel .. .. .. .. | .. | 112,442 | .. | 112,442 |
| Vengai .. .. .. | .. | 1,060 | .. | 2,228 | | | | | |
| Miscellaneous timber .. | .. | 1,120 | | | Central Circle. | | | | |
| Bellary district— | | | | | Timber— | | | | |
| Teak .. .. .. | .. | 200 | .. | 504 | Vengai .. .. .. | .. | 6 | .. | 48,084 |
| Miscellaneous timber .. | .. | 304 | | | Redwood .. .. .. | .. | 40,528 | | |
| | | | | | Miscellaneous timber .. | .. | 7,550 | | |
| *Total balance, Northern Circle.* | | | | | Sandalwood .. .. .. | .. | 1,310 | .. | 1,310 |
| | | | | | Fuel .. .. .. .. | .. | 134,111 | .. | 134,111 |
| Timber— | | | | | | No. | | No. | |
| Teak .. .. .. | .. | 248 | .. | 8,288 | Bamboos .. .. .. | 8,379 | .. | 8,379 | .. |
| Vengai .. .. .. | .. | 1,060 | | | | Mds. | | Mds. | |
| Sâl .. .. .. .. | .. | 5,136 | | | Minor produce .. .. | 671 | .. | 671 | .. |
| Miscellaneous timber .. | .. | 1,844 | | | Southern Circle. | | | | |
| Fuel— | | | | | Timber— | | | | |
| Kistna district .. .. | .. | 17,179 | .. | 120,075 | Teak .. .. .. | .. | 21,341 | .. | 92,682 |
| Kurnool do. .. .. | .. | 25,376 | | | Rosewood .. .. .. | .. | 207 | | |
| Bellary do. .. .. | .. | 77,520 | | | Vengai .. .. .. | .. | 1,632 | | |
| Bamboos— | No. | | No. | | Ironwood .. .. .. | .. | 116 | | |
| Kurnool .. .. .. | 23 | .. | 23 | .. | Miscellaneous timber .. | .. | 69,386 | | |
| Minor produce— | Mds. | | | | Sandalwood .. .. .. | .. | 1,619 | .. | 1,619 |
| Vizagapatam district .. | 20,722 | | | .. | Fuel .. .. .. .. | .. | 200,688 | .. | 200,688 |
| Gódávari district .. .. | 100 | | Mds. | .. | | No. | | No. | |
| Kistna district .. .. | 62 | .. | 20,891 | .. | Bamboos .. .. .. | 21,691 | .. | 21,691 | .. |
| | | | | | | Mds. | | Mds. | |
| Kurnool district .. .. | 7 | | | .. | Minor produce .. .. | 2,188 | .. | 2,188 | .. |
| Central Circle. | | | | | Total for the Presidency. | | | | |
| *Timber.* | | | | | Timber— | | | | |
| Cuddapah district— | | | | | Teak .. .. .. | .. | 21,417 | .. | 163,507 |
| Miscellaneous timber .. | .. | 669 | .. | 669 | Rosewood .. .. .. | .. | 207 | | |
| Nellore district— | | | | | Vengai .. .. .. | .. | 2,876 | | |
| Miscellaneous timber .. | .. | 71 | .. | 71 | Redwood .. .. .. | .. | 40,528 | | |
| North Arcot district— | | | | | Sâl .. .. .. | .. | 17,620 | | |
| Miscellaneous timber .. | .. | (a)8,763 | .. | 8,763 | Ironwood .. .. .. | .. | 116 | | |
| Salem district— | | | | | Miscellaneous timber .. | .. | 80,743 | | |
| Teak .. .. .. | .. | 34 | .. | 100 | Sandalwood .. .. .. | .. | 2,929 | .. | 2,929 |
| Miscellaneous timber .. | .. | 66 | | | Fuel .. .. .. .. | .. | 447,241 | .. | 447,241 |
| *Total balance, Central Circle.* | | | | | | No. | | No. | |
| | | | | | Bamboos .. .. .. | 30,070 | .. | 30,070 | .. |
| | | | | | | Mds. | | Mds. | |
| Timber— | | | | | Minor produce .. .. | 2,859 | .. | 2,859 | .. |
| Teak .. .. .. | .. | 34 | .. | 9,603 | **SOLD LOCALLY.** | | | | |
| Miscellaneous timber .. | .. | 9,569 | | | Northern Circle. | | | | |
| Sandalwood— | | | | | Timber— | | | | |
| Salem district .. .. | .. | 601 | .. | 601 | Teak .. .. .. | .. | 168 | .. | 44,292 |
| Fuel— | | | | | Miscellaneous timber .. | .. | 44,124 | | |
| Cuddapah district .. | .. | 9,234 | .. | 500,271 | Fuel .. .. .. .. | .. | 201,534 | .. | 201,534 |
| Nellore do. .. | .. | 136,240 | | | | No. | | No. | |
| North Arcot do. .. | .. | 329,118 | | | Bamboos .. .. .. | 819 | .. | 819 | .. |
| South Arcot do. .. | .. | 7,041 | | | | Mds. | | Mds. | |
| Trichinopoly do. .. | .. | 16,603 | | | Minor produce .. .. | 9,330 | .. | 9,330 | .. |
| Salem do. .. | .. | 2,035 | | | Central Circle. | | | | |
| Bamboos— | No. | | | | Timber— | | | | |
| Cuddapah district .. | 140 | .. | No. | .. | Teak .. .. .. | .. | 250 | .. | 5,814 |
| North Arcot district .. | 1,259 | .. | 1,399 | | Vengai .. .. .. | .. | 231 | | |
| Minor produce— | Mds. | | | | Miscellaneous timber .. | .. | 5,333 | | |
| Cuddapah district .. | 4 | | | | Fuel .. .. .. .. | .. | 1,515,507 | .. | 1,515,507 |
| Nellore do. .. | 8,624 | | | | | No. | | No. | |
| South Arcot do. .. | 62 | | Mds. | | Bamboos .. .. .. | 5,639 | .. | 5,639 | .. |
| Trichinopoly do. .. | 11 | .. | 15,737 | .. | | Mds. | | Mds. | |
| Salem district .. .. | 7,036 | | | | Minor produce .. .. | 6,825 | .. | 6,825 | .. |

(a) 1,118 cubic feet shown as balance under redwood in 1894-95. Return (Form No. 70) is included under miscellaneous during 1895-96.

## Account of Timber and other Produce cut or collected by Government Agency, &c.—*cont.*

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| **BALANCE AT COMMENCEMENT OF THE YEAR—*cont.*** | | | | |
| SOUTHERN CIRCLE. | | | | |
| *Timber.* | | | | |
| South Canara district— | | | | |
| Teak | .. | 101 | | |
| Rosewood | .. | 18 | | |
| Vengai | .. | 23 | .. | 25,551 |
| Miscellaneous timber | .. | 25,409 | | |
| North Malabar— | | | | |
| Teak | .. | 1,565 | | |
| Rosewood | .. | 1,092 | | |
| Vengai | .. | 259 | .. | 5,301 |
| Miscellaneous timber | .. | 2,385 | | |
| South Malabar— | | | | |
| Teak | .. | 1,083 | | |
| Rosewood | .. | 1,965 | | |
| Vengai | .. | 419 | .. | 32,812 |
| Miscellaneous timber | .. | 29,345 | | |
| Nilgiri district— | | | | |
| Teak | .. | 704 | | |
| Rosewood | .. | 177 | | |
| Vengai | .. | 2,884 | .. | 4,890 |
| Miscellaneous timber | .. | 1,125 | | |
| North Coimbatore— | | | | |
| Vengai | .. | 395 | | |
| Miscellaneous timber | .. | 1,252 | .. | 1,647 |
| South Coimbatore— | | | | |
| Teak | .. | 14,623 | | |
| Rosewood | .. | 245 | | |
| Vengai | .. | 1,830 | | |
| Ironwood | .. | 292 | .. | 71,489 |
| Miscellaneous timber | .. | 54,499 | | |
| Madura district— | | | | |
| Teak | .. | 580 | | |
| Rosewood | .. | 210 | | |
| Vengai | .. | 296 | .. | 1,624 |
| Miscellaneous timber | .. | 538 | | |
| Tinnevelly district— | | | | |
| Teak | .. | 20 | | |
| Miscellaneous timber | .. | 488 | .. | 508 |
| *Total balance, Southern Circle.* | | | | |
| Timber— | | | | |
| Teak | .. | 18,676 | | |
| Rosewood | .. | 3,707 | | |
| Vengai | .. | 6,106 | .. | 143,822 |
| Ironwood | .. | 292 | | |
| Miscellaneous timber | .. | 115,041 | | |
| Sandalwood— | | | | |
| Nilgiri district | .. | 307 | | |
| North Coimbatore | .. | 1,480 | .. | 1,787 |
| Fuel— | | | | |
| South Canara district | .. | 44 | | |
| Nilgiri district | .. | 352,092 | | |
| South Coimbatore | .. | 22,128 | .. | 390,690 |
| Madura district | .. | 3,887 | | |
| Tinnevelly district | .. | 12,539 | | |
| Bamboos— | No. | | No. | |
| Madura district | 520 | .. | 520 | .. |
| Minor produce— | Mds. | | | |
| South Canara district | 8 | | | |
| Do. Malabar | 27 | | | |
| Nilgiri district | 1,775 | | Mds. | |
| North Coimbatore | 99 | .. | 1,933 | .. |
| South Coimbatore | 24 | | | |
| TOTAL PRESIDENCY BALANCE. | | | | |
| Timber— | | | | |
| Teak | .. | 18,958 | | |
| Rosewood | .. | 3,707 | | |
| Vengai | .. | 7,166 | | |
| Sâl | .. | 5,136 | .. | 161,713 |
| Ironwood | .. | 292 | | |
| Miscellaneous timber | .. | 126,454 | | |

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| 6 | 7 | 8 | 9 | 10 |
| **SOLD LOCALLY—*cont.*** | | | | |
| SOUTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak | .. | 10,843 | | |
| Rosewood | .. | 5,391 | | |
| Vengai | .. | 32,628 | .. | 97,633 |
| Miscellaneous timber | .. | 48,771 | | |
| Sandalwood | .. | 894 | .. | 894 |
| Fuel | .. | 628,663 | .. | 628,668 |
| | Mds. | | Mds. | |
| Minor produce | 1,997 | .. | 1,997 | .. |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Teak | .. | 11,261 | | |
| Rosewood | .. | 5,391 | | |
| Vengai | .. | 32,859 | .. | 147,739 |
| Miscellaneous timber | .. | 98,228 | | |
| Sandalwood | .. | 894 | .. | 894 |
| Fuel | .. | 2,345,704 | .. | 2,345,704 |
| | No. | | No. | |
| Bamboos | 6,458 | .. | 6,458 | .. |
| | Mds. | | Mds. | |
| Minor produce | 18,152 | .. | 18,152 | .. |
| **CONVERTED IN DEPÔTS.** | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak | .. | 13 | | |
| Vengai | .. | 92 | .. | 105 |
| CENTRAL CIRCLE. | | | | |
| Timber— | | | | |
| Miscellaneous | .. | 4,536 | .. | 4,536 |
| SOUTHERN CIRCLE. | | | | |
| Fuel | .. | 112,947 | .. | 112,947 |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Teak | .. | 13 | | |
| Vengai | .. | 92 | .. | 4,641 |
| Miscellaneous timber | .. | 4,536 | | |
| Fuel | .. | 112,947 | .. | 112,947 |
| **LOST OR WRITTEN OFF AS USELESS, &c.** | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Vengai | .. | 18 | | |
| Sâl | .. | 867 | .. | 885 |
| Fuel | .. | 1,508 | .. | 1,508 |
| CENTRAL CIRCLE. | | | | |
| Timber— | | | | |
| Miscellaneous | .. | 1,420 | .. | 1,420 |
| Sandalwood | .. | 24 | .. | 24 |
| Fuel | .. | 51,858 | .. | 51,858 |
| | Mds. | | Mds. | |
| Minor produce | 469 | .. | 469 | .. |
| SOUTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak | .. | 365 | | |
| Rosewood | .. | 126 | | |
| Vengai | .. | 464 | .. | 15,467 |
| Miscellaneous timber | .. | 14,512 | | |
| Sandalwood | .. | 50 | .. | 50 |
| Fuel | .. | 5,757 | .. | 5,757 |
| | Mds. | | Mds. | |
| Minor produce | 3 | .. | 3 | .. |

## Account of Timber and other Produce cut or collected by Government Agency, &c.—*cont.*

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| *Total Presidency balance*—cont. | | | | |
| | Mds. | | Mds. | |
| Sandalwood .. .. | .. | 2,388 | .. | 2,388 |
| Fuel .. .. .. | .. | 1,011,036 | .. | 1,011,036 |
| | No. | | No. | |
| Bamboos .. .. .. | 1,942 | .. | 1,942 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 38,561 | .. | 38,561 | .. |
| RECEIVED FROM THE FORESTS IN DEPÔTS. | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 244 | | |
| Vengai .. .. .. | .. | 2,327 | | |
| Sâl .. .. .. | .. | 14,895 | .. | 20,860 |
| Miscellaneous timber .. | .. | 3,394 | | |
| Fuel .. .. .. .. | .. | 96,161 | .. | 96,161 |
| CENTRAL CIRCLE. | | | | |
| Timber— | | | | |
| Vengai .. .. .. | .. | 6 | | |
| Redwood .. .. .. | .. | 40,528 | .. | 44,856 |
| Miscellaneous timber .. | .. | 4,322 | | |
| Sandalwood .. .. .. | .. | 13 | .. | 13 |
| Fuel .. .. .. .. | .. | 234,138 | .. | 234,138 |
| | No. | | No. | |
| Bamboos .. .. .. | 5,393 | .. | 5,393 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 4,877 | .. | 4,877 | .. |
| SOUTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 47,045 | | |
| Rosewood .. .. .. | .. | 3,800 | | |
| Vengai .. .. .. | .. | 3,327 | .. | 188,835 |
| Ironwood .. .. .. | .. | 55 | | |
| Miscellaneous timber .. | .. | 134,608 | | |
| Sandalwood .. .. .. | .. | 764 | .. | 764 |
| Fuel .. .. .. .. | .. | 229,955 | .. | 229,955 |
| | No. | | No. | |
| Bamboos .. .. .. | 33,491 | .. | 33,491 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 2,259 | .. | 2,259 | .. |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 47,289 | | |
| Rosewood .. .. .. | .. | 3,800 | | |
| Vengai .. .. .. | .. | 5,660 | | |
| Redwood .. .. .. | .. | 40,528 | .. | 254,551 |
| Sâl .. .. .. | .. | 14,895 | | |
| Ironwood .. .. .. | .. | 55 | | |
| Miscellaneous timber .. | .. | 142,324 | | |
| Sandalwood .. .. .. | .. | 777 | .. | 777 |
| Fuel .. .. .. .. | .. | 560,254 | .. | 560,254 |
| | No. | | No. | |
| Bamboos .. .. .. | 38,884 | .. | 38,884 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 7,136 | .. | 7,136 | .. |
| RECEIVED FROM THE FORESTS FOR SALE LOCALLY. | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 168 | | |
| Miscellaneous timber .. | .. | 64,702 | .. | 64,870 |
| Fuel .. .. .. .. | .. | 328,127 | .. | 328,127 |
| | No. | | No. | |
| Bamboos .. .. .. | 6,929 | .. | 6,929 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 55,208 | .. | 55,208 | .. |

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| 6 | 7 | 8 | 9 | 10 |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 365 | .. | |
| Rosewood .. .. .. | .. | 126 | .. | |
| Vengai .. .. .. | .. | 482 | .. | 17,772 |
| Sâl .. .. .. | .. | 867 | .. | |
| Miscellaneous timber .. | .. | 15,932 | .. | |
| Sandalwood .. .. .. | .. | 74 | .. | 74 |
| Fuel .. .. .. .. | .. | 59,123 | .. | 59,123 |
| | Mds. | | Mds. | |
| Minor produce .. .. | 472 | .. | 472 | .. |
| USED BY THE DEPARTMENT. | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 38 | | |
| Vengai .. .. | .. | 1,078 | .. | 1,139 |
| Miscellaneous timber .. | .. | 23 | | |
| CENTRAL CIRCLE. | | | | |
| Timber— | | | | |
| Miscellaneous .. .. | .. | 522 | .. | 522 |
| Fuel .. .. .. | .. | 40 | .. | 40 |
| | No. | | No. | |
| Bamboos .. .. .. | 2,535 | .. | 2,535 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 38 | .. | 38 | .. |
| SOUTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 745 | | |
| Rosewood .. .. .. | .. | 3 | | |
| Vengai .. .. .. | .. | 63 | .. | 4,531 |
| Miscellaneous timber .. | .. | 3,720 | | |
| Fuel .. .. .. | .. | 255 | .. | 255 |
| | No. | | No. | |
| Bamboos .. .. .. | 200 | .. | 200 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 4 | .. | 4 | .. |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 783 | | |
| Rosewood .. .. .. | .. | 3 | | |
| Vengai .. .. .. | .. | 1,141 | .. | 6,192 |
| Miscellaneous timber .. | .. | 4,265 | | |
| Fuel .. .. .. | .. | 295 | .. | 295 |
| | No. | | No. | |
| Bamboos .. .. .. | 2,735 | .. | 2,735 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 42 | .. | 42 | .. |
| TRANSFERRED TO OTHER SALE DEPÔTS. | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Sâl .. .. .. .. | .. | 6,110 | .. | 6,110 |
| CENTRAL CIRCLE. | | | | |
| Fuel .. .. .. | .. | 28,545 | .. | 28,545 |
| SOUTHERN CIRCLE | | | | |
| Timber— | | | | |
| Rosewood .. .. .. | .. | 71 | .. | 8,969 |
| Miscellaneous timber .. | .. | 8,898 | | |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Rosewood .. .. .. | .. | 71 | | |
| Sâl .. .. .. .. | .. | 6,110 | .. | 15,079 |
| Miscellaneous timber .. | .. | 8,898 | | |
| Fuel .. .. .. .. | .. | 2,8545 | .. | 28,545 |

## Account of Timber and other Produce cut or collected by Government Agency, &c.—*cont.*

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| **RECEIVED FROM THE FORESTS FOR SALE LOCALLY—*cont.*** | | | | |
| CENTRAL CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 471 | | |
| Vengai .. .. .. | .. | 284 | .. | 6,606 |
| Miscellaneous timber .. | .. | 5,851 | | |
| Sandalwood .. .. .. | .. | 1,315 | .. | 1,315 |
| Fuel .. .. .. .. | .. | 1,267,864 | .. | 1,267,864 |
| | No. | | No. | |
| Bamboos .. .. .. | 11,054 | .. | 11,054 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 589 | .. | 589 | .. |
| SOUTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 28,284 | | |
| Rosewood .. .. | .. | 2,226 | | |
| Vengai .. .. | .. | 34,650 | .. | 94,743 |
| Miscellaneous timber .. | .. | 29,583 | | |
| Sandalwood .. .. .. | .. | 614 | .. | 614 |
| Fuel .. .. .. | .. | 741,316 | .. | 741,316 |
| | No. | | No. | |
| Bamboos .. .. .. | 200 | .. | 200 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 1,486 | .. | 1,486 | .. |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 28,923 | | |
| Rosewood .. .. | .. | 2,226 | | |
| Vengai .. .. .. | .. | 34,934 | .. | 166,219 |
| Miscellaneous timber .. | .. | 100,136 | | |
| Sandalwood .. .. | .. | 1,929 | .. | 1,929 |
| Fuel .. .. .. .. | .. | 2,337,307 | .. | 2,337,307 |
| | No. | | No. | |
| Bamboos .. .. .. | 18,183 | .. | 18,183 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 57,283 | .. | 57,283 | .. |
| **RECEIVED BY CONVERSION IN DEPÔTS.** | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 6 | | |
| Vengai .. .. .. | .. | 89 | .. | 95 |
| **RECEIVED BY TRANSFER FROM SALE OF DEPÔTS.** | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Sâl .. .. .. | .. | 6,110 | .. | 6,110 |
| CENTRAL CIRCLE. | | | | |
| Fuel .. .. .. .. | .. | 28,545 | .. | 28,545 |
| SOUTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Rosewood .. .. | .. | 71 | | |
| Miscellaneous timber .. | .. | 8,898 | .. | 8,969 |
| TOTAL FOR THE PRESIDENCY. | | | | |
| Timber— | | | | |
| Rosewood .. .. | .. | 71 | | |
| Sâl .. .. .. | .. | 6,110 | .. | 15,079 |
| Miscellaneous timber .. | .. | 8,898 | | |
| Fuel .. .. .. .. | .. | 28,545 | .. | 28,545 |
| **QUANTITY FOUND IN DEPÔTS IN EXCESS OF THE ORIGINAL MEASUREMENT.** | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Miscellaneous timber .. | .. | 61 | .. | 61 |
| | Md. | | Md. | |
| Minor produce .. .. | 1 | .. | 1 | .. |

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|
| 6 | 7 | 8 | 9 | 10 |
| **TOTAL ISSUES.** | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 295 | | |
| Vengai .. .. .. | .. | 2,426 | | |
| Sâl .. .. .. | .. | 24,597 | .. | 75,272 |
| Miscellaneous timber .. | .. | 47,954 | | |
| Fuel .. .. .. | .. | 315,484 | .. | 315,484 |
| | No. | | No. | |
| Bamboos .. .. .. | 819 | .. | 819 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 9,330 | .. | 9,330 | .. |
| CENTRAL CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 250 | | |
| Vengai .. .. .. | .. | 237 | | |
| Redwood .. .. | .. | 40,528 | .. | 60,376 |
| Miscellaneous timber .. | .. | 19,361 | | |
| Sandalwood .. .. | .. | 1,334 | .. | 1,334 |
| Fuel .. .. .. .. | .. | 1,730,061 | .. | 1,730,061 |
| | No. | | No. | |
| Bamboos .. .. .. | 16,553 | .. | 16,553 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 8,003 | .. | 8,003 | .. |
| SOUTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 33,294 | | |
| Rosewood .. .. | .. | 5,798 | | |
| Vengai .. .. .. | .. | 34,787 | .. | 219,282 |
| Ironwood .. .. | .. | 116 | | |
| Miscellaneous timber .. | .. | 145,287 | | |
| Sandalwood .. .. | .. | 2,563 | .. | 2,563 |
| Fuel .. .. .. | .. | 948,310 | .. | 948,310 |
| | No. | | No. | |
| Bamboos .. .. .. | 21,891 | .. | 21,891 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 4,192 | .. | 4,192 | .. |
| **GRAND TOTAL OF ISSUES FOR THE PRESIDENCY.** | | | | |
| Timber— | | | | |
| Teak .. .. .. | .. | 33,839 | | |
| Rosewood .. .. .. | .. | 5,798 | | |
| Vengai .. .. .. | .. | 37,450 | | |
| Redwood .. .. | .. | 40,528 | .. | 3,54,930 |
| Sâl .. .. .. | .. | 24,597 | | |
| Ironwood .. .. .. | .. | 116 | | |
| Miscellaneous timber .. | .. | 2,12,602 | | |
| Sandalwood .. .. .. | .. | 3,897 | .. | 3,897 |
| Fuel .. .. .. .. | .. | 2,993,855 | .. | 2,993,855 |
| | No. | | No. | |
| Bamboos .. .. .. | 39,263 | .. | 39,263 | .. |
| | Mds. | | Mds. | |
| Minor produce .. .. | 21,525 | .. | 21,525 | .. |
| **BALANCE AT CLOSE OF THE YEAR.** | | | | |
| NORTHERN CIRCLE. | | | | |
| Timber— | | | | |
| Ganjâm district— | | | | |
| Sâl .. .. .. | .. | 1,544 | .. | 2,028 |
| Miscellaneous timber .. | .. | 484 | | |
| Kurnool district— | | | | |
| Teak .. .. .. | .. | 171 | | |
| Vengai .. .. .. | .. | 1,050 | .. | 2,302 |
| Miscellaneous timber .. | .. | 1,081 | | |
| Bellary district— | | | | |
| Teak .. .. .. | .. | 200 | .. | 20,682 |
| Miscellaneous timber .. | .. | 20,482 | | |

## Account of Timber and other Produce cut or collected by Government Agency, &c.—*cont.*

| Particulars. | Number of quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. | Particulars. | Number or quantity. | Cublic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **QUANTITY FOUND IN DEPOTS IN EXCESS OF THE ORIGINAL MEASUREMENT—*cont.*** | | | | | **TOTAL BALANCE.** | | | | |
| CENTRAL CIRCLE. | | | | | NORTHERN CIRCLE. | | | | |
| Timber— | | | | | Timber— | | | | |
| Miscellaneous timber .. | .. | 20 | .. | 20 | Teak .. .. .. | .. | 371 | .. | 25,012 |
| Sandalwood .. .. | .. | 5 | .. | 5 | Vengai .. .. .. | .. | 1,050 | | |
| Fuel .. .. .. | .. | 3,953 | .. | 3,953 | Sâl .. .. .. | .. | 1,544 | | |
| SOUTHERN CIRCLE. | | | | | Miscellaneous timber .. | .. | 22,047 | | |
| Timber— | | | | | Fuel— | | | | |
| Vengai .. .. .. | .. | 16 | .. | 838 | Vizagapatam district .. | .. | 149 | .. | 228,579 |
| Miscellaneous timber .. | .. | 822 | | | Kistna do. .. | .. | 3,348 | | |
| Fuel .. .. .. .. | .. | 2,612 | .. | 2,612 | Kurnool do. .. | .. | 22,916 | | |
| TOTAL FOR THE PRESIDENCY. | | | | | Bellary do. .. | .. | 202,466 | | |
| Timber— | | | | | Bamboos— | No. | | | |
| Vengai .. .. .. | .. | 16 | .. | 919 | Kurnool district .. | 5,280 | .. | No. | .. |
| Miscellaneous timber .. | .. | 903 | | | Bellary Do. .. .. | 853 | .. | 6,133 | |
| Sandalwood .. .. .. | .. | 5 | .. | 5 | Minor produce— | Mds. | | | |
| Fuel .. .. .. .. | .. | 6,565 | .. | 6,565 | Vizagapatam district .. | 66,564 | .. | | |
| | Mds. | | Mds. | | Kistna do. .. | 62 | .. | Mds. | |
| Minor produce .. .. | 1 | .. | 1 | .. | Kurnool do. .. | 99 | .. | 66,770 | .. |
| TOTAL RECEIPTS. | | | | | Bellary do. .. | 45 | .. | | |
| NORTHERN CIRCLE. | | | | | CENTRAL CIRCLE. | | | | |
| | | | | | *Timber.* | | | | |
| Timber— | | | | | Cuddapah district— | | | | |
| Teak .. .. .. | .. | 666 | | | Miscellaneous timber .. | .. | 20 | .. | 20 |
| Vengai .. .. .. | .. | 3,476 | | | Nellore district— | | | | |
| Sâl .. .. .. | .. | 26,141 | .. | 100,284 | Miscellaneous timber .. | .. | 42 | .. | 42 |
| Miscellaneous timber .. | .. | 70,001 | | | North Arcot district— | | | | |
| Fuel .. .. .. .. | .. | 544,363 | .. | 544,363 | Miscellaneous timber .. | .. | 34 | .. | 34 |
| | No. | | No. | | South Arcot district— | | | | |
| Bamboos .. .. .. | 6,952 | .. | 6,952 | .. | Teak .. .. .. | .. | 221 | .. | 574 |
| | Mds. | | Mds. | | Vengai .. .. .. | .. | 53 | | |
| Minor produce .. .. | 76,100 | .. | 76,100 | .. | Miscellaneous timber .. | .. | 300 | | |
| CENTRAL CIRCLE. | | | | | Salem district— | | | | |
| | | | | | Teak .. .. .. | .. | 34 | .. | 39 |
| Timber— | | | | | Miscellaneous timber .. | .. | 5 | | |
| Teak .. .. .. | .. | 505 | | | TOTAL BALANCE. | | | | |
| Vengai .. .. .. | .. | 290 | | | | | | | |
| Redwood .. .. .. | .. | 40,528 | .. | 61,085 | CENTRAL CIRCLE. | | | | |
| Miscellaneous timber .. | .. | 19,762 | | | | | | | |
| Sandalwood .. .. .. | .. | 1,934 | .. | 1,934 | Timber— | | | | |
| Fuel .. .. .. .. | .. | 2,034,771 | .. | 2,034,771 | Teak .. .. .. | .. | 255 | .. | 709 |
| | No. | | No. | | Vengai .. .. .. | .. | 53 | | |
| Bamboos .. .. .. | 17,846 | .. | 17,846 | .. | Miscellaneous timber .. | .. | 401 | | |
| | Mds. | | Mds. | | Sandalwood— | | | | |
| Minor produce .. .. | 21,203 | .. | 21,203 | .. | North Arcot district .. | .. | 13 | .. | 600 |
| SOUTHERN CIRCLE. | | | | | South Arcot do. .. | .. | 2 | | |
| | | | | | Salem do. .. | .. | 585 | | |
| Timber— | | | | | Fuel— | | | | |
| Teak .. .. .. | .. | 94,005 | | | Cuddapah district .. | .. | 5,170 | | |
| Rosewood .. .. .. | .. | 9,804 | | | Nellore do. .. | .. | 106,599 | | |
| Vengai .. .. .. | .. | 44,099 | .. | 437,207 | North Arcot district .. | .. | 113,950 | .. | 304,710 |
| Ironwood .. .. .. | .. | 347 | | | South Arcot do. .. | .. | 14,409 | | |
| Miscellaneous timber .. | .. | 288,952 | | | Trichinopoly do. .. | .. | 60,322 | | |
| Sandalwood .. .. .. | .. | 3,165 | .. | 3,165 | Salem do. .. | .. | 4,260 | | |
| Fuel .. .. .. .. | .. | 1,364,573 | .. | 1,364,573 | Bamboos— | No. | | No. | |
| | No. | | No. | | North Arcot district .. | 1,293 | .. | 1,293 | .. |
| Bamboos .. .. .. | 34,211 | .. | 34,211 | .. | Minor produce— | Mds. | | Mds. | |
| | Mds. | | Mds. | | Nellore district .. .. | 6,164 | .. | 13,200 | .. |
| Minor produce .. .. | 5,678 | .. | 5,678 | .. | Salem do. .. .. | 7,036 | | | |
| GRAND TOTAL OF RECEIPTS FOR THE PRESIDENCY. | | | | | SOUTHERN CIRCLE. | | | | |
| | | | | | *Timber.* | | | | |
| Timber— | | | | | South Canara district— | | | | |
| Teak .. .. .. | .. | 95,176 | | | Rosewood .. .. .. | .. | 162 | .. | 12,051 |
| Rosewood .. .. .. | .. | 9,804 | | | Miscellaneous timber .. | .. | 11,889 | | |
| Vengai .. .. .. | .. | 47,865 | | | North Malabar— | | | | |
| Redwood .. .. .. | .. | 40,528 | .. | 598,576 | Teak .. .. .. | .. | 22,888 | | |
| Sâl .. .. .. | .. | 26,141 | | | Rosewood .. .. .. | .. | 1,200 | .. | 47,647 |
| Ironwood .. .. .. | .. | 347 | | | Vengai .. .. .. | .. | 3,317 | | |
| Miscellaneous timber .. | .. | 378,715 | | | Miscellaneous timber .. | .. | 20,242 | | |
| Sandalwood .. .. .. | .. | 5,099 | .. | 5,099 | South Malabar— | | | | |
| Fuel .. .. .. .. | .. | 3,943,707 | .. | 3,943,707 | Teak .. .. .. | .. | 19,544 | | |
| | No. | | No. | | Rosewood .. .. .. | .. | 2,303 | .. | 85,322 |
| Bamboos .. .. .. | 59,009 | .. | 59,009 | .. | Vengai .. .. .. | .. | 470 | | |
| | Mds. | | Mds. | | Miscellaneous timber .. | .. | 63,005 | | |
| Minor produce .. .. | 1,02,981 | .. | 102,981 | .. | | | | | |

Account of Timber and other Produce cut or collected by Government Agency &c.—*cont*,

| Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. | Particulars. | Number or quantity. | Cubic feet. | Total of each head. Number or quantity. | Total of each head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | TOTAL BALANCE—*cont.* | | | | |
| | | | | | *Timber*—cont. | | | | |
| | | | | | Nilgiris— | | | | |
| | | | | | Vengai .. .. .. | .. | 2,660 | .. | 3,682 |
| | | | | | Miscellaneous timber .. | .. | 1,022 | | |
| | | | | | North Coimbatore— | | | | |
| | | | | | Teak .. .. .. | .. | 102 | .. | 2,350 |
| | | | | | Vengai .. .. .. | .. | 1,654 | | |
| | | | | | Miscellaneous timber .. | .. | 594 | | |
| | | | | | South Coimbatore— | | | | |
| | | | | | Teak .. .. .. | .. | 18,167 | .. | 63,748 |
| | | | | | Rosewood .. .. .. | .. | 312 | | |
| | | | | | Vengai .. .. .. | .. | 871 | | |
| | | | | | Ironwood .. .. .. | .. | 231 | | |
| | | | | | Miscellaneous timber .. | .. | 44,167 | | |
| | | | | | Madura— | | | | |
| | | | | | Teak .. .. .. | .. | 4 | .. | 661 |
| | | | | | Rosewood .. .. .. | .. | 29 | | |
| | | | | | Vengai .. .. .. | .. | 311 | | |
| | | | | | Miscellaneous timber .. | .. | 317 | | |
| | | | | | Tinnevelly— | | | | |
| | | | | | Teak .. .. .. | .. | 6 | .. | 2,464 |
| | | | | | Vengai .. .. .. | .. | 29 | | |
| | | | | | Miscellaneous timber .. | .. | 2,429 | | |
| | | | | | TOTAL BALANCE. SOUTHERN CIRCLE. | | | | |
| | | | | | Timber— | | | | |
| | | | | | Teak .. .. .. | .. | 60,711 | .. | 217,925 |
| | | | | | Rosewood .. .. .. | .. | 4,006 | | |
| | | | | | Vengai .. .. .. | .. | 9,312 | | |
| | | | | | Ironwood .. .. .. | .. | 231 | | |
| | | | | | Miscellaneous timber .. | .. | 143,665 | | |
| | | | | | Sandalwood— | | | | |
| | | | | | South Coimbatore .. | .. | 27 | .. | 602 |
| | | | | | Nilgiris .. .. .. | .. | 575 | | |
| | | | | | Fuel— | | | | |
| | | | | | South Canara .. .. | .. | 1,910 | .. | 416,263 |
| | | | | | Nilgiris .. .. .. | .. | 326,784 | | |
| | | | | | North Coimbatore .. | .. | 520 | | |
| | | | | | South do. .. | .. | 43,666 | | |
| | | | | | Madura .. .. .. | .. | 4,103 | | |
| | | | | | Tinnevelly .. .. .. | .. | 39,280 | | |
| | | | | | Bamboos— | | | | |
| | | | | | | No. | | No. | |
| | | | | | South Coimbatore .. | 11,800 | .. | 12,320 | |
| | | | | | Madura .. .. .. | 520 | . | | |
| | | | | | Minor produce— | Mds. | | | |
| | | | | | North Malabar .. .. | 37 | .. | Mds. 1,486 | |
| | | | | | South do. .. .. | 134 | .. | | |
| | | | | | Nilgiris .. .. .. | 1,112 | .. | | |
| | | | | | North Coimbatore .. | 184 | .. | | |
| | | | | | South do. .. | 19 | .. | | |
| | | | | | TOTAL PRESIDENCY BALANCE. | | | | |
| | | | | | Timber— | | | | |
| | | | | | Teak .. .. .. | .. | 61,337 | .. | 243,646 |
| | | | | | Rosewood .. .. .. | .. | 4,006 | | |
| | | | | | Vengai .. .. .. | .. | 10,415 | | |
| | | | | | Sâl .. .. .. | .. | 1,544 | | |
| | | | | | Ironwood .. .. .. | .. | 231 | | |
| | | | | | Miscellaneous timber .. | .. | 166,113 | | |
| | | | | | Sandalwood .. .. .. | .. | 1,202 | .. | 1,202 |
| | | | | | Fuel .. .. .. .. | ... | 949,852 | .. | 949,852 |
| | | | | | | No. | | No. | |
| | | | | | Bamboos .. .. .. | 19,746 | .. | 19,746 | .. |
| | | | | | | Mds. | | Mds. | |
| | | | | | Minor produce .. .. | 81,456 | .. | 81,456 | .. |

## Annual Form No. 58.

*Forest Department, Madras Presidency.*

Abstract showing the Value of Timber and other Produce at sale depôts for the year 1895–96.

| District. | Description of timber or produce. | On hand at commencement of the year. | | | On hand at close of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | *Northern Circle.* | | | Rs. | | | Rs. | Rs. | Rs. |
| Ganjám .. | Sal logs .. .. .. | .. | 1,304 | 409 | .. | 1,544 | 580 | .. | .. |
| | ,, sleepers .. .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | ,, slabs .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | Miscellaneous .. .. | .. | .. | .. | .. | 484 | 103 | .. | .. |
| | Total, Timber .. | .. | 1,304 | 409 | .. | 2,028 | 683 | 274 | .. |
| Vizagapatam .. | Fuel .. .. .. | .. | .. | .. | .. | 149 | 9 | .. | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 66,564 | .. | 718 | .. | .. |
| | | .. | .. | .. | .. | .. | 727 | 727 | .. |
| Gódávari .. | .... | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna .. | Fuel .. .. .. | .. | 17,179 | 859 | .. | 3,348 | 220 | .. | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 62 | . | 124 | .. | .. |
| | | .. | .. | 859 | .. | .. | 344 | .. | 215 |
| Kurnool .. | Teak .. .. .. | .. | 48 | 79 | .. | 171 | 212 | .. | .. |
| | Vengai .. .. .. | .. | 1,060 | 1,325 | .. | 1,050 | 1,178 | .. | .. |
| | Miscellaneous .. .. | .. | 848 | 848 | .. | 1,081 | 852 | .. | .. |
| | Total, Timber .. | .. | .. | 2,252 | .. | 2,302 | 2,242 | .. | 10 |
| | Fuel .. .. .. | .. | .. | .. | .. | 22,916 | 2,080 | 2,080 | .. |
| | Bamboos .. .. .. | .. | .. | .. | .. | 5,280 | 300 | 300 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 99 | .. | 54 | 54 | .. |
| Bellary .. | Fuel .. .. .. | .. | 35,500 | 1,835 | .. | 202,466 | 9,200 | 7,365 | .. |
| | Teak .. .. .. | .. | .. | .. | .. | 200 | 250 | .. | .. |
| | Miscellaneous timber .. | .. | .. | .. | .. | 20,482 | 2,270 | .. | .. |
| | Total, Timber .. | .. | .. | .. | .. | 20,682 | 2,520 | 2,520 | .. |
| | Bamboos .. .. .. | .. | .. | .. | No. 853 | .. | 50 | 50 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 45 | .. | 3 | 3 | .. |
| | *Central Circle.* | | | | | | | | |
| Cuddapah .. | Redwood roots and stumps. | .. | .. | .. | .. | .. | .. | .. | .. |
| | Miscellaneous .. .. | .. | 237 | 130 | .. | 20 | 2 | .. | 128 |
| | Fuel .. .. | .. | 7,780 | 924 | .. | 5,170 | 615 | .. | 309 |
| | Minor produce .. .. | Mds. 4 | .. | 49 | .. | .. | .. | .. | 49 |
| Nellore .. | Miscellaneous timber .. | .. | .. | .. | .. | 42 | 16 | 16 | .. |
| | Fuel .. .. .. | .. | 5,989 | 1,285 | .. | 106,599 | 12,769 | 11,484 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 6,164 | .. | 3,272 | 3,272 | .. |
| North Arcot .. | Miscellaneous timber .. | .. | 1,118 | 430 | ... | 34 | 7 | .. | 423 |
| | Sandalwood .. .. | .. | .. | .. | .. | 13 | 150 | 150 | .. |
| | Fuel .. .. .. | .. | 28,311 | 1,946 | .. | 113,950 | 7,784 | 5,838 | .. |
| | Bamboos .. .. .. | 1,259 | .. | 315 | No. 1,293 | .. | 152 | .. | 163 |

## Abstract showing the Value of Timber and other Produce at sale depôts for the year 1895-96—*cont.*

| District. | Description of timber or produce. | On hand at commencement of the year. | | | On hand at close of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | *Central Circle*—cont. | | | Rs. | | | Rs. | Rs. | Rs. |
| South Arcot .. | Sandalwood .. .. | .. | .. | .. | .. | 2 | 10 | 10 | .. |
| | Miscellaneous timber .. | .. | .. | .. | .. | 300 | 430 | 430 | .. |
| | Teak .. .. .. | .. | .. | .. | .. | 221 | | | |
| | Vengai .. .. .. | .. | .. | .. | .. | 53 | | | |
| | Total, Timber .. | .. | .. | .. | .. | 574 | 430 | 430 | .. |
| | Fuel .. .. .. | .. | .. | .. | .. | 14,409 | 584 | 584 | .. |
| Salem .. .. | Sandalwood .. .. | .. | 601 | 6,745 | .. | 585 | 5,850 | .. | 895 |
| | Miscellaneous timber .. | .. | 55 | 31 | .. | 5 | 38 | .. | .. |
| | Teak .. .. .. | .. | 34 | 34 | .. | 34 | | | |
| | Total, Timber .. | .. | 89 | 65 | .. | 39 | 38 | .. | 27 |
| | Fuel .. .. .. | .. | 536 | 67 | .. | 4,260 | 107 | 40 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 7,036 | .. | 200 | 200 | .. |
| Trichinopoly .. | Fuel .. .. .. | .. | .. | .. | .. | 60,322 | 4,288 | 4,288 | .. |
| | *Southern Circle.* | | | | | | | | |
| South Canara .. | Teak .. .. .. | .. | 101 | 177 | .. | .. | .. | .. | .. |
| | Rosewood .. .. .. | .. | 18 | 20 | .. | 162 | 160 | .. | .. |
| | Vengai .. .. .. | .. | 23 | 23 | .. | .. | .. | .. | .. |
| | Miscellaneous .. .. | .. | 10,476 | 1,078 | .. | 11,889 | 1,100 | .. | .. |
| | Total, Timber .. | .. | 10,618 | 1,298 | .. | 12,051 | 1,260 | .. | 38 |
| | Fuel .. .. .. | .. | .. | .. | .. | 1,910 | 300 | 300 | .. |
| North Malabar. | Teak .. .. .. | .. | .. | .. | .. | 22,888 | 14,305 | .. | .. |
| | Rosewood .. .. .. | .. | .. | .. | .. | 1,200 | 300 | .. | .. |
| | Vengai .. .. .. | .. | .. | .. | .. | 3,317 | 1,036 | .. | .. |
| | Miscellaneous timber .. | .. | .. | .. | .. | 20,242 | 4,716 | .. | .. |
| | Total, Timber .. | .. | .. | .. | .. | 47,647 | 20,357 | 20,357 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 37 | .. | 817 | 817 | .. |
| South Malabar. | Teak] .. .. .. | .. | .. | .. | .. | 19,544 | 52,100 | .. | .. |
| | Rosewood .. .. .. | .. | .. | .. | .. | 2,303 | | | |
| | Vengai .. .. .. | .. | .. | .. | .. | 470 | | | |
| | Miscellaneous timber .. | .. | .. | .. | .. | 63,005 | | | |
| | Total, Timber .. | .. | .. | .. | .. | 85,322 | 52,100 | 52,100 | .. |
| | Minor produce .. .. | .. | .. | .. | Mds. 134 | .. | 418 | 418 | .. |
| Nilgiris .. | Miscellaneous timber .. | .. | .. | .. | .. | 1,022 | 90 | .. | .. |
| | Vengai .. .. .. | .. | .. | .. | .. | 2,660 | 800 | .. | .. |
| | [Total, Timber .. | .. | .. | .. | .. | 3,682 | 890 | 890 | .. |
| | Fuel .. .. .. | 499 | 40,621 | 2,904 | .. | 326,784 | 2,783 | .. | 121 |
| | Minor produce .. .. | .. | .. | .. | Mds. 1,112 | .. | 1,034 | 1,034 | .. |
| | Sandalwood .. .. | .. | .. | .. | .. | 27 | 270 | 270 | .. |
| North Coimbatore. | Teak .. .. .. | .. | .. | .. | .. | 102 | 75 | .. | .. |
| | Miscellaneous timber .. | .. | 106 | 106 | .. | 594 | 450 | .. | .. |
| | Vengai .. .. .. | .. | 617 | 700 | .. | 1,654 | 1,200 | .. | .. |
| | Total, Timber .. | .. | 723 | 806 | .. | 2,350 | 1,725 | 919 | .. |

## Abstract showing the Value of Timber and other Produce at sale depôts for the year 1895-96—*cont.*

| District. | Description of timber or produce. | On hand at commencement of the year. | | | On hand at close of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | *Southern Circle*—cont. | | | Rs. | | | Rs. | Rs. | Rs. |
| North Coimbatore—*cont.* | Sandalwood including chips | .. | 1,480 | 14,072 | .. | 575 | 6,243 | .. | 7,829 |
| | Minor produce | .. | 99 | 644 | Mds. 184 | .. | 650 | 6 | .. |
| | Fuel | .. | .. | .. | .. | 520 | 65 | 65 | .. |
| South Coimbatore. | Teak | .. | 45 | 75 | .. | 18,167 | 26,600 | .. | .. |
| | Rosewood | .. | 88 | 147 | .. | 312 | 436 | .. | .. |
| | Vengai | .. | .. | .. | .. | 871 | 746 | .. | .. |
| | Ironwood | .. | 215 | 116 | .. | 231 | 90 | .. | .. |
| | Miscellaneous | .. | 23,755 | 8,915 | .. | 44,167 | 22,000 | .. | .. |
| | Total, Timber | .. | 24,103 | 9,253 | .. | 63,748 | 49,872 | 40,619 | .. |
| | Fuel | .. | .. | .. | .. | 43,666 | 948 | 948 | .. |
| | Bamboos | .. | .. | .. | No. 11,800 | .. | 74 | 74 | .. |
| | Minor produce | .. | .. | .. | Mds. 19 | .. | 19 | 19 | .. |
| Madura | Teak | .. | 580 | 580 | .. | 4 | 4 | .. | .. |
| | Rosewood | .. | 196 | 196 | .. | 29 | 29 | .. | .. |
| | Vengai | .. | .. | .. | .. | 311 | 150 | .. | .. |
| | Miscellaneous | .. | 105 | 50 | .. | 317 | 477 | .. | .. |
| | Total, Timber | .. | 881 | 826 | .. | 661 | 660 | .. | 166 |
| | Fuel | .. | 613 | 82 | .. | 4,103 | 570 | 488 | .. |
| | Bamboos | .. | .. | .. | No. 520 | .. | 32 | 32 | .. |
| Tinnevelly | Teak | .. | .. | .. | .. | 6 | 6 | .. | .. |
| | Miscellaneous timber | .. | 487 | 396 | .. | 2,429 | 2,246 | .. | .. |
| | Vengai | .. | .. | .. | .. | 29 | 29 | .. | .. |
| | Total, Timber | .. | 487 | 396 | .. | 2,464 | 2,281 | 1,885 | .. |
| | Fuel | .. | 880 | 33 | .. | 39,280 | 3,120 | 3,087 | .. |
| | ABSTRACT. | | | | | | | | |
| | *Northern Circle.* | | | | | | | | |
| | Timber | .. | 3,260 | 2,661 | .. | 25,012 | 5,445 | 2,784 | .. |
| | Fuel | .. | 52,679 | 2,694 | .. | 228,879 | 11,509 | 8,815 | .. |
| | Bamboos | .. | .. | .. | No. 6,133 | .. | 350 | 350 | .. |
| | Minor produce | .. | .. | .. | Mds. 66,770 | .. | 899 | 899 | .. |
| | *Central Circle.* | | | | | | | | |
| | Timber | .. | 1,444 | 625 | .. | 709 | 493 | .. | 132 |
| | Sandalwood | .. | 601 | 6,745 | .. | 600 | 6,010 | .. | 735 |
| | Fuel | .. | 42,616 | 4,222 | .. | 304,710 | 26,147 | 21,925 | .. |
| | Bamboos | No. 1,259 | .. | 315 | No. 1,293 | .. | 152 | .. | 163 |
| | Minor produce | Mds. 4 | .. | 49 | Mds. 13,200 | .. | 3,472 | 3,423 | .. |
| | *Southern Circle.* | | | | | | | | |
| | Timber | .. | 36,812 | 12,579 | .. | 217,925 | 1,29,145 | 1,16,566 | .. |
| | Fuel | .. | 42,114 | 3,019 | .. | 416,263 | 7,786 | 4,767 | .. |
| | Sandalwood | .. | 1,480 | 14,072 | .. | 602 | 6,513 | .. | 7,559 |
| | Bamboos | .. | .. | .. | No. 12,320 | .. | 106 | 106 | .. |
| | Minor produce | Mds. 99 | .. | 644 | Mds 1,486 | .. | 2,938 | 2,294 | .. |

Abstract showing the Value of Timber and other Produce at sale depôts for the year 1895–96—*cont*

| Description of timber or produce. | On hand at commencement of the year. | | | On hand at close of the year. | | | Differences in value. | |
|---|---|---|---|---|---|---|---|---|
| | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| GRAND TOTAL. | | | | | | | | |
| | | | Rs. | | | Rs. | Rs. | Rs. |
| Timber .. .. .. .. .. .. | .. | 41,516 | 15,865 | .. | 243,646 | 1,35,083 | 1,19,218 | .. |
| Sandalwood .. .. .. .. .. | .. | 2,081 | 20,817 | .. | 1,202 | 12,523 | .. | 8,294 |
| Fuel .. .. .. .. .. .. | .. | 137,409 | 9,935 | .. | 949,852 | 45,442 | 35,507 | .. |
| | No. | | | No. | | | | |
| Bamboos .. .. .. .. .. .. | 1,259 | .. | 315 | 19,746 | .. | 608 | 293 | .. |
| | Mds. | | | Mds. | | | | |
| Minor produce .. .. .. .. .. | 103 | .. | 693 | 81,456 | .. | 7,309 | 6,616 | .. |

NOTE.—The stock on hand at close of the year relates to stock both in the forest and sale depôts, whereas that shown on hand at commencement of the year and which was taken from Form No. 73-A of 1894–95 report relates to stock in sale depôts only.

## ANNUAL FORM No. 72-A (OLD CODE).

*Forest Department, Madras Presidency.*

**TIMBER and other produce cut, collected and removed by consumers or purchasers during 1895-96.**

| District. | Timber. | Firewood and charcoal. | Bamboos. | MONEY VALUE OF SALES. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Timber. | | Firewood and charcoal. | | Bamboos. | | Grazing and fodder grass. | | Minor produce. | | Total. | |
| | | | | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. |
| *Northern Circle.* | C. FEET. | C. FEET. | NO. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Ganjám .. .. .. | 167,511 | 705,727 | 1,777,270 | 18,223 | 18,196 | 9,818 | 9,818 | 7,215 | 7,215 | 6,384 | 6,384 | 3,491 | 3,491 | 45,131 | 45,104 |
| Vizagapatam .. .. | 80,145 | 499,825 | 1,803,600 | 5,777 | 5,777 | 10,532 | 10,532 | 11,057 | 11,057 | 1,514 | 1,514 | 9,709 | 9,709 | 38,589 | 38,589 |
| Gódávari .. .. .. | 250,227 | 646,181 | 9,470,523 | 29,370 | 29,370 | 19,244 | 19,244 | 51,103 | 51,103 | 3,271 | 3,271 | 3,046 | 3,046 | 1,06,034 | 1,06,034 |
| Kistna .. .. .. | 277,917 | 462,510 | 168,820 | 25,299 | 25,299 | 12,605 | 13,104 | 568 | 568 | 76,549 | 76,596 | 17,414 | 17,378 | 1,32,435 | 1,32,945 |
| Kurnool .. .. .. | 323,365 | 424,575 | 6,498,000 | 28,592 | 28,592 | 10,938 | 10,938 | 20,312 | 20,312 | 21,305 | 17,962 | 57,508 | 56,584 | 1,38,655 | 1,34,388 |
| Bellary .. .. .. | 290,172 | 405,600 | 91,800 | 16,462 | 16,462 | 7,363 | 7,363 | 1,818 | 1,818 | 13,405 | 13,405 | 1,33,799 | 73,869 | 1,72,847 | 1,12,917 |
| Anantapur .. .. | 38,657 | 115,706 | 9,690 | 6,887 | 6,887 | 2,878 | 2,800 | 217 | 217 | 5,615 | 5,615 | 86,808 | 86,808 | 1,02,405 | 1,02,327 |
| Total .. | 1,427,394 | 3,260,124 | 19,819,703 | 1,30,610 | 1,30,583 | 73,378 | 73,799 | 92,290 | 92,290 | 1,28,043 | 1,24,747 | 3,11,775 | 2,50,885 | 7,36,096 | 6,72,304 |
| *Central Circle.* | | | | | | | | | | | | | | | |
| Cuddapah .. .. .. | 224,029 | 809,072 | 328,740 | 18,904 | 18,904 | 21,762 | 19,364 | 7,469 | 7,469 | 41,255 | 41,244 | 83,001 | 80,635 | 1,72,391 | 1,67,616 |
| Nellore .. .. .. | 188,172 | 207,580 | 4,374 | 15,021 | 15,021 | 11,843 | 11,843 | 176 | 176 | 21,480 | 21,480 | 38,321 | 38,321 | 86,841 | 86,841 |
| Chingleput .. .. | 52,763 | 104,360 | 2,535 | 3,739 | 3,739 | 5,721 | 5,721 | 146 | 146 | 6,112 | 6,112 | 7,307 | 7,307 | 23,025 | 23,025 |
| North Arcot .. .. | 10,751 | 381,539 | 2,895,414 | 2,214 | 2,214 | 30,193 | 25,425 | 39,440 | 27,182 | 19,489 | 19,489 | 49,467 | 46,628 | 1,40,803 | 1,20,928 |
| South do. .. .. | 29,201 | 543,341 | 47,700 | 3,650 | 3,650 | 33,954 | 30,151 | 2,751 | 2,751 | 26,482 | 26,482 | 21,536 | 21,536 | 88,373 | 84,570 |
| Salem .. .. .. | 173,245 | 599,820 | 7,747,485 | 27,300 | 27,300 | 37,607 | 37,607 | 43,772 | 43,748 | 36,719 | 36,719 | 40,660 | 40,664 | 1,85,482 | 1,81,038 |
| Trichinopoly .. .. | 81,507 | 1,530,536 | 669,048 | 5,894 | 5,894 | 25,758 | 21,554 | 3,386 | 3,386 | 8,330 | 10,547 | 48,552 | 22,126 | 86,920 | 63,507 |
| Tanjore .. .. .. | 21,700 | 302,220 | 2,863 | 1,445 | 1,445 | 9,087 | 9,087 | 102 | 102 | 608 | 608 | 5,014 | 4,378 | 16,256 | 15,620 |
| Total .. | 784,368 | 4,474,468 | 11,698,159 | 78,167 | 78,167 | 1,75,849 | 1,60,752 | 97,242 | 84,960 | 1,60,475 | 1,62,681 | 2,88,858 | 2,61,495 | 8,00,591 | 7,48,155 |
| *Southern Circle.* | | | | | | | | | | | | | | | |
| South Canara .. .. | 10,384 | 719,360 | 54,770 | 1,888 | 1,888 | 11,250 | 11,250 | 1,474 | 1,474 | 3,514 | 3,514 | 19,490 | 19,490 | 37,616 | 37,616 |
| North Malabar .. .. | 2,723 | 864 | 2,444 | 946 | 946 | 9 | 9 | 41 | 41 | 2,214 | 2,214 | 1,295 | 1,295 | 4,505 | 4,505 |
| South do. .. .. | 57,545 | 127,609 | 181,900 | 8,483 | 8,483 | 3,022 | 3,022 | 1,920 | 1,920 | .. | .. | 3,893 | 1,870 | 17,318 | 15,295 |
| Nilgiris .. .. .. | 13,784 | 19,007 | 301,959 | 3,078 | 2,131 | 931 | 931 | 3,358 | 3,358 | 8,853 | 8,853 | 1,609 | 1,609 | 17,829 | 16,882 |
| North Coimbatore .. | 18,165 | 163,290 | 1,156,290 | 1,796 | 1,796 | 9,514 | 9,514 | 7,217 | 7,217 | 22,393 | 22,393 | 28,174 | 20,021 | 69,094 | 60,941 |
| South do. .. .. | 21,943 | 752,976 | 291,800 | 8,730 | 8,730 | 12,765 | 12,765 | 4,474 | 4,474 | 4,687 | 4 687 | 12,643 | 11,141 | 43,299 | 41,797 |
| Madura .. .. .. | 25,651 | 214,382 | 32,947 | 3,239 | 3,239 | 8,436 | 8,436 | 2,579 | 2,579 | 4,591 | 4,591 | 28,371 | 28,371 | 47,216 | 47,216 |
| Tinnevelly .. .. | 15,924 | 1,078,845 | 15,940 | 4,294 | 4,104 | 35,727 | 35,339 | 1,063 | 1,063 | 6,816 | 6,816 | 22,153 | 21,830 | 70,053 | 69,152 |
| Total .. | 166,119 | 3,076,333 | 2,038,050 | 32,454 | 31,317 | 81,654 | 81,266 | 22,126 | 22,126 | 53,068 | 53,068 | 1,17,628 | 1,05,627 | 3,06,930 | 2,93,404 |
| Grand total .. | 2,377,881 | 10,810,925 | 33,555,912 | 2,41,231 | 2,40,067 | 3,30,881 | 3,15,817 | 2,11,658 | 1,99,376 | 3,41,586 | 3,40,496 | 7,18.261 | 6,18,107 | 18,43,617 | 17,13,863 |
| | | | | | | | | | | | | | | | |
| Add outstanding due from previous year .. .. .. .. .. | | | | | | | | | | | | | | 78,968 | |
| Deduct amount of outstanding written off, &c. .. .. .. .. | | | | | | | | | | | | | | 2,062 | |
| Total .. | | | | | | | | | | | | | | 19,20,523 | |
| Deduct amount realized during the year as per Form No. 59 .. .. | | | | | | | | | | | | | | 17,13,863 | |
| Balance outstanding .. .. .. .. .. | | | | | | | | | | | | | | 2,06,660 | |

## ANNUAL FORM No. 72-B (OLD CODE).

*Forest Department, Madras Presidency.*

TIMBER and other Produce confiscated and sold during the year 1895–96.

| District. | TIMBER. | | FIREWOOD. | | BAMBOOS. | | Minor produce in value. | Total amount of sales. | Amount actually realized. |
|---|---|---|---|---|---|---|---|---|---|
| | Quantity in cubic feet. | Amount of sales. | Quantity in cubic feet. | Amount of sales. | Number. | Amount of sales. | | | |
| *Northern Circle.* | | RS. | | RS. | | RS. | RS. | RS. | RS. |
| Ganjám .. .. | 4,499 | 925 | 376 | 18 | 1,846 | 19 | .. | 962 | 962 |
| Vizagapatam .. | 50 | 10 | 230 | 19 | 1,400 | 20 | 85 | 134 | 134 |
| Gódávari .. .. | 6,775 | 1,198 | 2,004 | 57 | 8,879 | 112 | 101 | 1,468 | 1,468 |
| Kistna .. .. | 1,270 | 241 | 186 | 5 | 23 | 6 | 4 | 256 | 256 |
| Kurnool .. .. | 1,802 | 1,165 | 942 | 69 | 38,590 | 112 | 108 | 1,454 | 1,449 |
| Bellary .. .. | 186 | 18 | 706 | 20 | .. | .. | .. | 38 | 38 |
| Anantapur .. .. | 456 | 61 | 140 | 3 | .. | .. | 17 | 81 | 81 |
| Total .. | 15,038 | 3,618 | 4,584 | 191 | 50,738 | 269 | 315 | 4,393 | 4,388 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. | 823 | 217 | 69 | 4 | 344 | 13 | 22 | 256 | 256 |
| Nellore .. .. | 740 | 185 | 500 | 23 | .. | .. | .. | 208 | 208 |
| Chingleput .. .. | 576 | 54 | 1,201 | 51 | 1 | .. | 28 | 133 | 133 |
| North Arcot .. | 253 | 100 | 433 | 28 | 780 | 9 | 13 | 150 | 150 |
| South do. .. | 1,548 | 97 | 2,124 | 139 | .. | 1 | 12 | 249 | 249 |
| Salem .. .. | 799 | 115 | 991 | 55 | 2,300 | 74 | 32 | 276 | 276 |
| Trichinopoly .. | 77 | 6 | 780 | 15 | 544 | 9 | 6 | 36 | 36 |
| Tanjore .. .. | 180 | 29 | 333 | 11 | .. | .. | 1 | 41 | 41 |
| Total .. | 4,996 | 803 | 6,431 | 326 | 3,969 | 106 | 114 | 1,349 | 1,349 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. | 3,596 | 1,343 | 2,793 | 739 | 275 | 20 | 11 | 2,113 | 2,113 |
| North Malabar .. | 2,112 | 325 | 128 | 1 | .. | .. | .. | 326 | 326 |
| South do. .. | 3,500 | 297 | .. | .. | .. | .. | 1 | 298 | 298 |
| Nilgiris .. .. | .. | .. | 15 | 1 | .. | 2 | 1 | 4 | 4 |
| North Coimbatore .. | 325 | 253 | 416 | 32 | 317 | 39 | 3 | 327 | 327 |
| South do. .. | 804 | 284 | 158 | 8 | 176 | 11 | 33 | 336 | 336 |
| Madura .. .. | 671 | 634 | 341 | 46 | 16 | 1 | 34 | 715 | 715 |
| Tinnevelly .. .. | 143 | 30 | 3,914 | 171 | .. | 4 | 12 | 217 | 217 |
| Total .. | 11,151 | 3,166 | 7,765 | 998 | 784 | 77 | 95 | 4,336 | 4,336 |
| Grand Total .. | 31,185 | 7,587 | 18,780 | 1,515 | 55,491 | 452 | 524 | 10,078 | 10,073 |
| Add outstandings due from previous year .. .. .. .. .. .. .. .. | | | | | | | | .. | |
| Deduct amount realized during the year as per Form No. 59 .. .. .. .. .. | | | | | | | | 10,073 | |
| Balance outstanding on 30th June 1896 .. | | | | | | | | 5 | |

ANNUAL FORM No. 59.

*Forest Department, Madras, Northern Circle.*

SUMMARY of Revenue of the different districts, 1895-96.

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | |
| (*a*) Timber .. .. .. | .. | 10,237 | 115 | 37 | 328 | 5,801 | 1,867 | .. | 18,385 |
| (*b*) Firewood and charcoal .. | .. | .. | 346 | .. | 90 | 1,677 | 5,865 | .. | 7,978 |
| (*c*) Bamboos .. .. .. | .. | .. | .. | .. | .. | 3 | 69 | .. | 72 |
| (*d*) Sandalwood .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Grass and other minor produce .. .. .. | .. | .. | 134 | 162 | 34 | 15 | 587 | .. | 932 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | |
| (*a*) Timber .. .. .. | .. | 18,196 | 5,777 | 29,370 | 25,299 | 28,592 | 16,462 | 6,887 | 1,30,583 |
| (*b*) Firewood and charcoal .. | .. | 9,818 | 10,532 | 19,244 | 13,104 | 10,938 | 7,363 | 2,800 | 73,799 |
| (*c*) Bamboos .. .. | .. | 7,215 | 11,057 | 51,103 | 568 | 20,312 | 1,818 | 217 | 92,290 |
| (*d*) Grazing and fodder grass | .. | 6,384 | 1,514 | 3,271 | 76,596 | 17,962 | 13,405 | 5,615 | 1,24,747 |
| (*e*) Other produce .. .. | .. | 3,491 | 9,709 | 3,046 | 17,378 | 56,584 | 73,869 | 86,808 | 2,50,885 |
| III. Confiscated drift and waifwood.. | .. | 962 | 134 | 1,468 | 256 | 1,449 | 38 | 81 | 4,388 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | |
| (*a*) Fines and forfeitures .. | .. | 21 | 10 | 20 | 12 | 121 | .. | 673 | 857 |
| (*b*) Refunds .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Other sources .. .. | 2 | 614 | 1,468 | 2,846 | 4,991 | 2,775 | 5,784 | 963 | 18,943 |
| Total, Receipts .. | 2 | 56,938 | 40,796 | 1,10,067 | 1,38,656 | 1,46,229 | 1,27,127 | 1,04,044 | 7,23,85 |

MADRAS,
14th August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 59.

*Forest Department, Madras, Central Circle.*

SUMMARY of Revenue of the different districts, 1895-96.

| Budget heads. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. .. | .. | 636 | 20,231 | .. | 2,722 | 1,579 | 1,008 | .. | .. | 26,176 |
| (*b*) Firewood and charcoal .. | .. | 26,555 | 12,890 | 107 | 10,862 | 4,186 | 50,894 | 8,732 | .. | 1,14,226 |
| (*c*) Bamboos .. | .. | .. | 63 | .. | 1,807 | .. | 344 | .. | .. | 2,214 |
| (*d*) Sandalwood .. | .. | .. | .. | .. | 6 | .. | 12,372 | .. | .. | 12,378 |
| (*e*) Grass and other minor produce. | .. | 4,816 | 871 | .. | 39 | 1 | .. | 79 | .. | 5,806 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | |
| (*a*) Timber .. .. | .. | 15,021 | 18,904 | 3,739 | 2,214 | 3,650 | 27,300 | 5,894 | 1,445 | 78,167 |
| (*b*) Firewood and charcoal .. | .. | 11,843 | 19,364 | 5,721 | 25,425 | 30,151 | 37,607 | 21,554 | 9,087 | 1.60,752 |
| (*c*) Bamboos .. | .. | 176 | 7,469 | 146 | 27,182 | 2,751 | 43,748 | 3,386 | 102 | 84,960 |
| (*d*) Grazing and fodder grass .. | .. | 21,480 | 41,244 | 6,112 | 19,489 | 26,482 | 36,719 | 10,547 | 608 | 1,62,681 |
| (*e*) Other produce .. | .. | 38,321 | 80,635 | 7,307 | 46,628 | 21,536 | 40,664 | 22,126 | 4,378 | 2,61,595 |
| III. Confiscated drift and waifwood .. .. | .. | 208 | 256 | 133 | 150 | 249 | 276 | 36 | 41 | 1,349 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | | |
| (*a*) Fines and forfeitures .. .. | .. | 50 | 26 | 43 | 150 | .. | 7 | 506 | .. | 782 |
| (*b*) Refunds .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Other sources .. | 10 | 1,128 | 1,621 | 2,162 | 8,770 | 5,426 | 6,863 | 2,542 | 125 | 28,647 |
| Total, Receipts .. | 10 | 1,20,234 | 2,03,574 | 25,470 | 1,45,444 | 96,011 | 2,57,802 | 75,402 | 15,786 | 9,39,733 |

MADRAS,
17th August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 59.

*Forest Department, Madras, Southern Circle.*

Summary of Revenue of the different districts, 1895–96.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *Receipts.* | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 18,505 | 1,470 | 41,430 | 1,514 | 9,792 | 4,880 | 33,882 | 6,303 | 1,17,776 |
| (*b*) Firewood and charcoal .. | .. | 22,684 | 14 | 3,780 | 6,203 | 5,861 | .. | 47 | 1,549 | 40,088 |
| (*c*) Bamboos .. | .. | .. | 92 | 144 | .. | .. | .. | 503 | .. | 739 |
| (*d*) Sandalwood .. | .. | 6,566 | 2,474 | .. | .. | .. | .. | .. | .. | 9,040 |
| (*e*) Grass and other minor produce. | .. | 1,432 | 574 | 453 | 47 | 31 | 1,283 | 642 | 7,746 | 12,208 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | |
| (*a*) Timber .. | .. | 2,131 | 1,796 | 8,730 | 3,239 | 4,104 | 946 | 8,483 | 1,888 | 31,317 |
| (*b*) Firewood and charcoal .. | .. | 931 | 9,514 | 12,765 | 8,436 | 35,339 | 9 | 3,022 | 11,250 | 81,266 |
| (*c*) Bamboos .. | .. | 3,358 | 7,217 | 4,474 | 2,579 | 1,063 | 41 | 1,920 | 1,474 | 22,126 |
| (*d*) Grazing and fodder grass.. | .. | 8,853 | 22,393 | 4,687 | 4,591 | 6,816 | 2,214 | .. | 3,514 | 53,068 |
| (*e*) Other produce.. | .. | 1,609 | 20,021 | 11,141 | 28,371 | 21,830 | 1,295 | 1,870 | 19,490 | 1,05,627 |
| III. Confiscated drift and waifwood .. .. | .. | 4 | 327 | 336 | 715 | 217 | 326 | 298 | 2,113 | 4,336 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | | |
| (*a*) Fines and forfeitures .. .. | .. | .. | 85 | 13 | 180 | 27 | 41 | 30 | 169 | 545 |
| (*b*) Refunds .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Other sources .. | 3 | 3,227 | 3,242 | 1,604 | 1,197 | 3,944 | 5,071 | 4,840 | 2,774 | 25,902 |
| Total, Receipts .. | 3 | 69,300 | 69,219 | 89,507 | 57,072 | 89,024 | 16,106 | 55,537 | 58,270 | 5,04,038 |

Madras,
14th August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 59.

*Forest Department, Madras Presidency, Northern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1895-96.

| Budget Heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | |
| (*a*) Timber .. .. | .. | 5,174 | 382 | 5 | 121 | 3,298 | 389 | .. | 9,369 |
| (*b*) Firewood and charcoal .. .. | .. | .. | 490 | 25 | 136 | 1,324 | 4,204 | .. | 6,179 |
| (*c*) Bamboos .. .. | .. | .. | .. | .. | .. | 37 | 65 | .. | 102 |
| (*d*) Sandal wood .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Grass and other minor produce .. | .. | .. | 165 | .. | .. | 24 | 441 | .. | 630 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. .. .. | 10 | 6,296 | 4,296 | 10,413 | 6,390 | 12,135 | 1,125 | 1,679 | 42,344 |
| III. Confiscated drift and waif-wood .. .. .. | .. | 1,054 | 26 | 668 | 2 | 224 | .. | 2 | 1,976 |
| IV. Revenue from forests not managed by Government— | | | | | | | | | |
| V. Rent of leased forests and payments to share-holders in forests managed by Government .. .. | .. | .. | .. | .. | .. | .. | 10,000 | .. | 10,000 |
| VI. Live Stock, stores, tools and plant— | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Feed and keep of cattle .. .. | 779 | 445 | 700 | 624 | .. | 579 | 33 | .. | 3,160 |
| (*c*) Stores, tools and plant .. .. | 102 | 35 | 70 | 552 | 844 | 278 | .. | 7 | 1,888 |
| VII. Communications and buildings— | | | | | | | | | |
| (*a*) Roads and bridges.. | .. | 904 | 1,044 | 867 | 2,635 | 1,353 | 240 | 38 | 7,081 |
| (*b*) Buildings .. .. | .. | 1,751 | 2,111 | 2,421 | 1,383 | 6,362 | 1,049 | 1,241 | 16,318 |
| (*c*) Other works .. | .. | 25 | 47 | .. | 388 | 77 | .. | .. | 537 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | |
| (*a*) Demarcation .. | .. | 1,090 | 1,376 | 1,291 | 5,436 | 928 | 3,022 | 621 | 13,764 |
| (*b*) Cost of forest settlement; compensation for land and rights .. .. | .. | 43 | 112 | .. | 543 | 54 | 8 | 12 | 772 |
| (*c*) Surveys .. .. | .. | 852 | 1,276 | 350 | 1,631 | 1,772 | 766 | 1,086 | 7,733 |
| (*d*) Working plans .. | .. | .. | .. | .. | 35 | 46 | .. | .. | 81 |
| (*e*) Sowing and planting. | 2 | 5,893 | 221 | 963 | 3,285 | 178 | 925 | 742 | 12,209 |
| (*f*) Protection from fire. | .. | 1,367 | 464 | 1,647 | 1,163 | 2,457 | 4,331 | 2,450 | 13,879 |
| (*g*) Other works .. | .. | 155 | .. | .. | 10,640 | 14 | 2,274 | 1,041 | 14,124 |
| IX. Miscellaneous— | | | | | | | | | |
| (*a*) Refunds .. .. | .. | 96 | 727 | 592 | 1,605 | 401 | 429 | 268 | 4,118 |
| (*b*) Law charges .. | .. | .. | 348 | 513 | 71 | .. | 1 | .. | 933 |
| (*c*) Other charges .. | 28 | 216 | 76 | 146 | 699 | 38 | 29 | 14 | 1,246 |
| Total, A.—Conservancy and Works. | 921 | 25,396 | 13,931 | 21,077 | 37,007 | 31,579 | 29,331 | 9,201 | 1,68,443 |

MADRAS,
26th August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 59.

*Forest Department, Madras, Central Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1895–96.

| Budget heads. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 148 | 7,873 | .. | 380 | 611 | 1,414 | .. | .. | 10,426 |
| (*b*) Firewood and charcoal .. | .. | 13,218 | 5,594 | 55 | 5,492 | 3,078 | 38,528 | 4,784 | 304 | 71,053 |
| (*c*) Bamboos .. | .. | .. | 20 | .. | 736 | 10 | 363 | .. | .. | 1,129 |
| (*d*) Sandalwood .. | .. | .. | .. | .. | .. | 1 | 1,062 | .. | .. | 1,063 |
| (*e*) Grass and other minor produce .. | .. | 2,217 | 244 | 2 | .. | .. | .. | 40 | .. | 2,503 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. | 9 | 567 | 8,887 | 1,789 | 155 | 2,168 | 11,021 | 2,092 | 362 | 27,050 |
| III. Confiscated, drift and waif-wood .. .. | .. | .. | 7 | 1 | 9 | 42 | 29 | .. | .. | 88 |
| IV. Revenue from forests not managed by Government— | | | | | | | | | | |
| V. Rent of leased forests and payments to shareholders in forests managed by Government .. .. .. | .. | .. | .. | .. | .. | .. | 10 | .. | .. | 10 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Feed and keep of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Stores, tools and plant .. | 2 | .. | 134 | 45 | 154 | 185 | 106 | 194 | 53 | 873 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | .. | 1,108 | .. | 2,152 | 191 | .. | 367 | 71 | 3,889 |
| (*b*) Buildings .. | .. | 24 | 1,731 | 209 | 1,335 | 613 | 1,518 | 1,159 | 20 | 6,609 |
| (*c*) Other works .. | .. | .. | .. | .. | 78 | 113 | .. | 7 | .. | 198 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 384 | 2,449 | 2,814 | 2,401 | 5,185 | 1,785 | 1,690 | 8 | 16,716 |
| (*b*) Cost of Forest Settlement; Compensation for land and rights .. | .. | 48 | 114 | 15 | 1,928 | 144 | 268 | .. | .. | 2,517 |
| (*c*) Surveys .. | 767 | 360 | 431 | 365 | 10 | 263 | 1,766 | 604 | .. | 4,566 |
| Survey of India Department charges .. | 54,837 | .. | .. | .. | .. | .. | .. | .. | .. | 54,837 |
| (*d*) Working Plans. | .. | .. | 31 | .. | .. | .. | .. | 103 | .. | 134 |
| (*e*) Sowing and planting .. | .. | 2,996 | 988 | 504 | 8,739 | 3,977 | 84 | 2,003 | 1,050 | 20,341 |
| (*f*) Protection from fire .. .. | .. | 679 | 4,545 | 539 | 3,964 | 608 | 2,128 | 32 | .. | 12,495 |
| (*g*) Other works .. | .. | 961 | 2,356 | 2,665 | 7,315 | 5,205 | 6,754 | 4,035 | 1,613 | 30,904 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. .. | 6 | 1,712 | 187 | 28 | 261 | 5,856 | 1,038 | 1,153 | 603 | 10,844 |
| (*b*) Law charges .. | .. | 36 | 10 | .. | 736 | 38 | 164 | 2 | .. | 986 |
| (*c*) Other charges .. | 32 | .. | 28 | 29 | 10 | 1 | 328 | 112 | 2 | 542 |
| Total A.—Conservancy and Works .. | 55,653 | 23,350 | 36,737 | 9,060 | 35,855 | 28,289 | 68,366 | 18,377 | 4,086 | 2,79,773 |

MADRAS,
19th August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 59.

*Forest Department, Madras, Southern Circle.*

SUMMARY of Expenditure of the different districts, 1895-96.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 3,492 | 784 | 22,372 | 692 | 8,223 | 4,547 | 9,336 | 4,965 | 54,411 |
| (*b*) Firewood and charcoal .. | .. | 16,930 | 152 | 1,370 | 3,379 | 2,426 | 68 | .. | 508 | 24,833 |
| (*c*) Bamboos .. | .. | .. | 82 | 67 | .. | .. | .. | 9 | .. | 158 |
| (*d*) Sandalwood .. | .. | 663 | 1,129 | .. | .. | .. | .. | .. | .. | 1,792 |
| (*e*) Grass and other minor produce | .. | 490 | 382 | 186 | .. | .. | 328 | 304 | 3,394 | 5,084 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. | 9 | 1,538 | 2,348 | 3,777 | 2,438 | 2,754 | 392 | 13 | 7,278 | 20,547 |
| III. Confiscated, drift and waifwood .. .. | .. | 7 | 107 | 109 | 282 | .. | 1 | .. | .. | 506 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests and payments to shareholders in forests managed by Government .. .. .. | .. | 4,500 | .. | 2,500 | .. | .. | .. | 4,078 | .. | 11,078 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | .. | 344 | .. | .. | 1,764 | 959 | .. | 3,067 |
| (*b*) Feed and keep of cattle .. | .. | 2,856 | .. | 4,600 | .. | .. | 3,588 | 9,172 | 496 | 20,712 |
| (*c*) Stores, tools and plant .. | 8 | 228 | 267 | 1,137 | 122 | 496 | 397 | 277 | 227 | 3,159 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | 1,911 | 4,625 | 4,620 | 208 | 4,662 | 1,110 | 207 | .. | 17,343 |
| (*b*) Buildings .. | .. | 872 | 6,133 | 2,648 | 1,399 | 4,213 | 1,554 | 1,006 | 326 | 18,181 |
| (*c*) Other works .. | .. | 162 | 150 | 60 | 154 | 107 | 1,216 | 77 | 1 | 1,927 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 2,547 | 2,733 | 279 | 19 | 688 | 711 | 203 | 483 | 7,663 |
| (*b*) Cost of forest settlement; compensation for land and rights .. | .. | 139 | 20 | .. | 704 | 3,071 | 369 | 189 | .. | 4,492 |
| (*c*) Surveys .. | .. | 1,170 | 897 | 45 | 649 | 1,204 | 113 | 347 | 2,324 | 6,749 |
| (*d*) Working plans. | .. | 342 | .. | 115 | —1 | 110 | 8 | 56 | 46 | 676 |
| (*e*) Sowing and planting .. | 9 | 3,733 | 154 | 1,490 | 527 | 545 | 1,789 | 4,995 | 810 | 14,052 |
| (*f*) Protection from fire .. .. | .. | 2,533 | 754 | 2,552 | 3,532 | 1,835 | 1,338 | 2,419 | 906 | 15,869 |
| (*g*) Other works .. | .. | 588 | 5,529 | 1,741 | 4,001 | 5,395 | 1,564 | 1,184 | 1,715 | 21,717 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. | .. | 38 | 208 | 2,259 | 144 | 825 | 582 | 103 | 684 | 4,843 |
| (*b*) Law charges .. | .. | 5 | 1 | .. | 14 | .. | 5 | 1 | 1 | 27 |
| (*c*) Other charges .. | .. | 2,711 | 804 | 260 | 92 | 229 | 822 | 111 | 694 | 5,723 |
| Total A.—Conservancy and works .. | 26 | 47,455 | 27,259 | 52,531 | 18,355 | 36,813 | 22,266 | 35,046 | 24,858 | 2,64,609 |

MADRAS,
17th August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 59.

*Forest Department, Madras Presidency, Northern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1895-96.

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Brought forward, Total A. "Conservancy and works" .. | 921 | 25,396 | 13,931 | 21,077 | 37,007 | 31,579 | 29,331 | 9,201 | 1,68,443 |
| I. Salaries— | | | | | | | | | |
| (*a*) Conservators .. .. | 14,470 | .. | .. | .. | .. | .. | .. | .. | 14,470 |
| (*b*) Superior officers .. | 5,934 | 10,086 | 6,521 | 8,340 | 13,030 | 13,810 | 4,908 | 8,210 | 70,859 |
| (*c*) Subordinate forest and depôt establishments.. | 420 | 4,840 | 3,704 | 7,357 | 7,745 | 7,118 | 6,106 | 5,393 | 42,683 |
| (*d*) Office establishments .. | 8,947 | 1,916 | 1,506 | 2,702 | 3,484 | 3,223 | 2,198 | 1,687 | 25,663 |
| (*e*) Exchange compensation allowances .. .. | 3,323 | 1,602 | 1,056 | 982 | 2,107 | 1,358 | 1,120 | — 430 | 11,118 |
| II. Travelling allowances— | | | | | | | | | |
| (*a*) Conservators .. .. | 3,535 | .. | .. | .. | .. | .. | .. | .. | 3,535 |
| (*b*) Superior officers .. | 1,716 | 2,518 | 1,246 | 2,066 | 2,363 | 3,379 | 1,060 | 1,181 | 15,529 |
| (*c*) Subordinate forest and depôt establishments.. | 165 | 1,951 | 1,206 | 2,396 | 1,698 | 2,600 | 1,459 | 1,436 | 12,911 |
| (*d*) Office establishments .. | 1,538 | 321 | 379 | 422 | 1,088 | 500 | 272 | 405 | 4,925 |
| III. Contingencies— | | | | | | | | | |
| (*a*) Stationery .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. .. | 399 | 79 | 427 | 252 | 1,056 | 284 | 369 | 106 | 2,972 |
| (*c*) Rents, rates and taxes.. | 450 | 58 | 214 | 174 | 8 | 96 | 66 | 36 | 1,102 |
| (*d*) Pay of police guards .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. .. | 556 | 397 | 481 | 655 | 1,550 | 618 | 453 | 465 | 5,175 |
| (*f*) Sundries .. .. | 615 | 217 | 588 | 923 | 630 | 558 | 373 | 408 | 4,312 |
| Total, B —"Establishments" .. | 42,068 | 23,985 | 17,328 | 26,269 | 34,759 | 33,544 | 18,384 | 19,097 | 2,15,434 |
| Grand Total of Expenditure .. | 42,989 | 49,381 | 31,259 | 47,346 | 71,766 | 65,123 | 47,715 | 28,298 | 3,83,877 |

MADRAS,
1st September 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 59.

*Forest Department, Madras, Central Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1895–96.

| Budget heads. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *B.*—"*Establishments.*" | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Brought forward, Total A. "Conservancy and Works" .. .. | 55,603 | 23,350 | 36,737 | 9,060 | 35,855 | 28,289 | 68,366 | 18,377 | 4,086 | 2,79,773 |
| I. Salaries— | | | | | | | | | | |
| (*a*) Conservators .. | 19,200 | .. | .. | .. | .. | .. | .. | .. | .. | 19,200 |
| (*b*) Superior officers .. | 16,500 | 8,150 | 11,465 | 9,782 | 9,596 | 10,077 | 19,323 | 15,800 | .. | 1,00,693 |
| (*c*) Subordinate forest and depôt establishments .. | 600 | 6,607 | 10,463 | 2,831 | 9,985 | 9,971 | 10,141 | 4,170 | 1,090 | 55,858 |
| (*d*) Office establishments | 13,029 | 2,742 | 3,325 | 1,738 | 3,737 | 2,731 | 3,299 | 2,300 | 716 | 33,617 |
| (*e*) Exchange compensation allowance. | 3,101 | 62 | 1,508 | 1,504 | 1,104 | 1,366 | 1,594 | 2,228 | .. | 12,467 |
| II. Travelling allowances— | | | | | | | | | | |
| (*a*) Conservators .. | 3,064 | .. | .. | .. | .. | .. | .. | .. | .. | 3,064 |
| (*b*) Superior officers .. | 8,737 | 1,005 | 2,445 | 1,236 | 1,884 | 1,049 | 4,321 | 2,505 | 107 | 20,289 |
| (*c*) Subordinate forest and depôt establishments .. | 263 | 1,570 | 2,260 | 917 | 2,537 | 2,365 | 3,430 | 1,589 | 281 | 15,212 |
| (*d*) Office establishments | 3,038 | 353 | 466 | 276 | 552 | 232 | 691 | 601 | 83 | 6,292 |
| III. Contingencies— | | | | | | | | | | |
| (*a*) Stationery .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. | 1,019 | 185 | 186 | 111 | 252 | 99 | 550 | 106 | 24 | 2,532 |
| (*c*) Rents, rates and taxes .. .. | .. | .. | 268 | 4 | 97 | 616 | 28 | 66 | .. | 1,079 |
| (*d*) Pay of Police guards .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. | 623 | 280 | 757 | 390 | 1,071 | 832 | 1,862 | 544 | 168 | 5,527 |
| (*f*) Sundries .. .. | 799 | 799 | 881 | 216 | 479 | 308 | 696 | 185 | 29 | 4,392 |
| Total B.—"Establishments" .. .. | 66,973 | 21,753 | 34,024 | 19,005 | 31,294 | 29,646 | 45,935 | 30,094 | 2,498 | 2,81,222 |
| Grand Total of Expenditure .. .. | 1,22,626 | 45,103 | 70,761 | 28,065 | 67,149 | 57,935 | 1,14,301 | 48,471 | 6,584 | 5,60,995 |

MADRAS,
21st August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 59.

*Forest Department, Madras Presidency, Southern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1895–96.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *B.—"Establishments."* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Brought forward, Total A. "Conservancy and Works" .. .. | 26 | 47,455 | 27,259 | 52,531 | 18,355 | 36,813 | 22,266 | 35,046 | 24,858 | 2,64,609 |
| I. Salaries— | | | | | | | | | | |
| (*a*) Conservators .. | 14,954 | .. | .. | .. | .. | .. | .. | .. | .. | 14,954 |
| (*b*) Superior officers .. | .. | 15,605 | 11,354 | 17,808 | 11,611 | 8,729 | 4,773 | 12,450 | 7,500 | 89,830 |
| (*c*) Subordinate forest and depôt establishments .. | 1,502 | 9,000 | 5,835 | 9,512 | 7,604 | 7,521 | 5,159 | 5,662 | 6,650 | 58,445 |
| (*d*) Office establishments .. .. | 6,864 | 3,259 | 3,282 | 3,495 | 2,689 | 3,498 | 2,836 | 2,384 | 3,430 | 31,737 |
| (*e*) Exchange compensation allowances | 2,462 | 2,531 | 1,718 | 2,810 | 1,648 | 1,016 | 706 | 203 | 1,206 | 14,300 |
| II. Travelling allowances— | | | | | | | | | | |
| (*a*) Conservators .. | 3,100 | .. | .. | .. | .. | .. | .. | .. | .. | 3,100 |
| (*b*) Superior officers .. | .. | 2,069 | 2,436 | 2,948 | 1,629 | 1,477 | 1,534 | 1,028 | 934 | 14,055 |
| (*c*) Subordinate forest and depôt establishments .. | 989 | 2,623 | 1,838 | 2,995 | 1,633 | 1,857 | 853 | 1,641 | 2,159 | 16,588 |
| (*d*) Office establishments .. .. | 550 | 140 | 409 | 708 | 360 | 524 | 650 | 189 | 476 | 4,006 |
| III. Contingencies— | | | | | | | | | | |
| (*a*) Stationery .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. | 241 | 35 | 299 | 245 | 374 | 314 | 180 | 12 | 511 | 2,211 |
| (*c*) Rents, rates and taxes .. .. | 315 | 68 | 114 | 35 | 19 | 24 | .. | 9 | 78 | 662 |
| (*d*) Pay of police guards .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Official postage .. | 548 | 447 | 673 | 444 | 615 | 651 | 327 | 211 | 791 | 4,707 |
| (*f*) Sundries .. .. | 1,091 | 1,108 | 551 | 330 | 148 | 492 | 568 | 435 | 189 | 4,912 |
| Total B.—"Establishments" .. .. .. | 32,616 | 36,885 | 28,509 | 41,330 | 28,330 | 26,103 | 17,586 | 24,224 | 23,924 | 2,59,507 |
| Grand Total of Expenditure .. .. | 32,642 | 84,340 | 55,768 | 93,861 | 46,685 | 62,916 | 39,852 | 59,270 | 48,782 | 5,24,116 |

MADRAS,
18th August 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## SUMMARY of receipts and expenditure for each circle and for the Presidency prepared from the Accountant-General's statement in the Board's office.

| Budget heads. | Northern Circle. | Cental Circle. | Southern Circle. | Grand Total, Presidency. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| **RECEIPTS.** | Rs. | Rs. | Rs. | Rs. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | |
| (a) Timber | 18,385 | 26,176 | 1,17,776 | 1,62,337 |
| (b) Firewood and charcoal | 7,978 | 1,14,226 | 40,088 | 1,62,292 |
| (c) Bamboos | 72 | 2,214 | 739 | 3,025 |
| (d) Sandalwood | .. | 12,378 | 9,040 | 21,418 |
| (e) Grass and other minor produce | 932 | 5,806 | 12,208 | 18,946 |
| Total | 27,367 | 1,60,800 | 1,79,851 | 3,68,018 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | |
| (a) Timber | 1,30,583 | 78,167 | 31,317 | 2,40,067 |
| (b) Firewood and charcoal | 73,799 | 1,60,752 | 81,266 | 3,15,817 |
| (c) Bamboos | 92,290 | 84,960 | 22,126 | 1,99,376 |
| (d) Grazing and fodder grass | 1,24,747 | 1,62,681 | 53,068 | 3,40,496 |
| (e) Other produce | 2,50,885 | 2,61,595 | 1,05,627 | 6,18,107 |
| Total | 6,72,304 | 7,48,155 | 2,93,404 | 17,13,863 |
| III. Confiscated drift and waif wood | 4,388 | 1,349 | 4,336 | 10,073 |
| IV. Revenue from forests not managed by Government. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | |
| (a) Fines and forfeitures | 857 | 782 | 545 | 2,184 |
| (b) Refunds | .. | .. | .. | .. |
| (c) Other sources | 18,943 | 28,647 | 25,902 | 73,492 |
| Total | 19,800 | 29,429 | 26,447 | 75,676 |
| Grand Total | 7,23,859 | 9,39,733 | 5,04,038 | 21,67,630 |
| **EXPENDITURE.** | | | | |
| *A.—Conservancy and Works.* | | | | |
| I. Timber and other produce removed from the forests by Government Agency— | | | | |
| (a) Timber | 9,369 | 10,426 | 54,411 | 74,206 |
| (b) Firewood and charcoal | 6,179 | 71,053 | 24,833 | 1,02,065 |
| (c) Bamboos | 102 | 1,129 | 158 | 1,389 |
| (d) Sandalwood | .. | 1,063 | 1,792 | 2,855 |
| (e) Grass and other minor produce | 630 | 2,503 | 5,084 | 8,217 |
| Total | 16,280 | 86,174 | 86,278 | 1,88,732 |
| II. Timber and other produce removed from the forests by consumers or purchasers | 42,344 | 27,050 | 20,547 | 89,941 |
| III. Confiscated drift and waif wood | 1,976 | 88 | 506 | 2,570 |
| IV. Revenue from forests not managed by Government. | .. | .. | .. | .. |
| V. Rent of leased forests and payments to shareholders in forests managed by Government | 10,000 | 10 | 11,078 | 21,088 |
| VI. Live stock, stores, tools and plant— | | | | |
| (a) Purchase of cattle | .. | .. | 3,067 | 3,067 |
| (b) Feed and keep of cattle | 3,160 | .. | 20,712 | 23,872 |
| (c) Stores, tools and plant | 1,888 | 873 | 3,159 | 5,920 |
| Total, VI | 5,048 | 873 | 26,938 | 32,859 |
| VII. Communications and buildings— | | | | |
| (a) Roads and bridges | 7,081 | 3,889 | 17,343 | 28,313 |
| (b) Buildings | 16,318 | 6,609 | 18,181 | 41,108 |
| (c) Other works | 537 | 198 | 1,927 | 2,662 |
| Total, VII | 23,936 | 10,696 | 37,451 | 72,083 |
| VIII. Demarcation improvement and extension of forests— | | | | |
| (a) Demarcation | 13,764 | 16,716 | 7,663 | 38,143 |
| (b) Cost of forest settlement, compensation for land and rights | 772 | 2,517 | 4,492 | 7,781 |
| (c) Surveys | 7,733 | 4,566 | 6,749 | 19,048 |
| Survey of India Department charges | .. | 54,837 | .. | 54,837 |
| (d) Working plans | 81 | 134 | 676 | 891 |
| (e) Sowing and planting | 12,209 | 20,341 | 14,052 | 46,602 |
| (f) Protection from fire | 13,879 | 12,495 | 15,869 | 42,243 |
| (g) Other works | 14,124 | 30,904 | 21,717 | 66,745 |
| Total, A-VIII | 62,562 | 1,42,510 | 71,218 | 2,76,290 |

## Summary of receipts and expenditure for each circle and for the Presidency prepared from the Accountant-General's statement in the Board's office—*cont.*

| Budget heads. | Northern Circle. | Central Circle. | Southern Circle. | Grand Total, Presidency. |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| EXPENDITURE—*cont.* | | | | |
| *A.—Conservancy and Works*—cont. | Rs. | Rs. | Rs. | Rs. |
| IX. Miscellaneous— | | | | |
| (*a*) Refunds .. .. .. .. .. .. | 4,118 | 10,844 | 4,843 | 19,805 |
| (*b*) Law charges .. .. .. .. .. | 933 | 986 | 27 | 1,946 |
| (*c*) Other charges .. .. .. .. .. | 1,246 | 542 | 5,723 | 7,511 |
| Total, A-IX .. | 6,297 | 12,372 | 10,593 | 29,262 |
| Total, A.—Conservancy and Works .. | 1,66,443 | 2,79,773 | 2,64,609 | 7,12,825 |
| *B.—Establishments.* | | | | |
| I. Salaries— | | | | |
| (*a*) Conservators .. .. .. .. .. | 14,470 | 19,200 | 14,954 | 48,624 |
| (*b*) Superior officers .. .. .. .. | 70,839 | 1,00,693 | 89,830 | 2,61,362 |
| (*c*) Subordinate forest and depôt establishments. | 42,683 | 55,858 | 58,445 | 1,56,986 |
| (*d*) Office establishments .. .. .. | 25,863 | 33,617 | 31,737 | 91,217 |
| (*e*) Exchange compensation allowances .. | 11,118 | 12,467 | 14,300 | 37,885 |
| Total, VI .. | 1,64,973 | 2,21,835 | 2,09,266 | 5,96,074 |
| II. Travelling allowances— | | | | |
| (*a*) Conservators .. .. .. .. .. | 3,535 | 3,064 | 3,100 | 9,699 |
| (*b*) Superior officers .. .. .. .. | 15,529 | 20,289 | 14,055 | 49,873 |
| (*c*) Subordinate forest and depôt establishments. | 12,911 | 15,212 | 16,588 | 44,711 |
| (*d*) Office establishments .. .. .. | 4,925 | 6,292 | 4,006 | 15,223 |
| Total, B-II .. | 36,900 | 44,857 | 37,749 | 1,19,506 |
| III. Contingencies— | | | | |
| (*a*) Stationery .. .. .. .. .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. .. | 2,972 | 2,532 | 2,211 | 7,715 |
| (*c*) Rents, rates and taxes .. .. .. | 1,102 | 1,079 | 662 | 2,843 |
| (*d*) Pay of police guards .. .. .. .. | .. | .. | .. | .. |
| (*e*) Official postage .. .. .. .. | 5,175 | 6,527 | 4,707 | 16,409 |
| (*f*) Sundries .. .. .. .. .. | 4,312 | 4,392 | 4,912 | 13,616 |
| Total, B-III .. | 13,561 | 14,530 | 12,492 | 40,583 |
| Total, B.—Establishments .. | 2,15,434 | 2,81,222 | 2,59,507 | 7,56,163 |
| Grand Total of Expenditure .. | 3,83,877 | 5,60,995 | 5,24,116 | 14,68,988 |
| Surplus .. | 3,39,982 | 3,78,738 | .. | 6,98,642 |
| Deficit .. | .. | .. | — 20,078 | .. |
| Total .. | 7,23,859 | 9,39,733 | 5,04,038 | 21,67,630 |

## Annual Form No. 60.

*Forest Department, Madras Presidency, Northern Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1895–96.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Northern Circle .. .. .. .. | .. | 5,944 12 3 | 5,944 12 3 | 59 2 7 | 5,888 15 0 | 5,948 1 7 | 3 5 4 | .. |
| Forest Settlement-officer, Ganjám, &c. .. .. | .. | 510 7 5 | 510 7 5 | 40 0 0 | 494 13 6 | 534 13 6 | 24 6 1 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | 100 0 0 | 100 0 0 | 160 0 0 | 60 0 0 | 220 0 0 | 120 0 0 | .. |
| Ganjám .. .. .. .. .. .. | .. | 36,427 12 6 | 36,427 12 6 | 1,399 6 4 | 36,405 2 4 | 37,804 8 8 | 1,376 12 2 | .. |
| Vizagapatam .. .. .. .. .. .. | .. | 20,296 11 1 | 20,296 11 1 | 382 8 4 | 23,675 11 8 | 24,058 4 0 | 3,761 8 11 | .. |
| Gódávari .. .. .. .. .. .. | .. | 39,856 5 11 | 39,856 5 11 | 1,909 9 2 | 38,828 15 2 | 40,738 8 4 | 882 2 5 | .. |
| Kistna .. .. .. .. .. .. | .. | 60,330 5 8 | 60,330 5 8 | 3,411 15 0 | 60,544 15 11 | 63,956 14 11 | 3,626 9 3 | .. |
| Kurnool .. .. .. .. .. .. | .. | 48,578 13 7 | 48,578 13 7 | 983 2 0 | 49,210 14 5 | 50,194 0 5 | 1,615 2 10 | .. |
| Bellary .. .. .. .. .. .. | .. | 38,846 14 7 | 38,846 14 7 | 875 12 1 | 39,365 12 1 | 40,241 8 2 | 1,394 9 7 | .. |
| Anantapur .. .. .. .. .. .. | .. | 18,013 2 5 | 18,013 2 5 | 607 9 1 | 18,116 3 7 | 18,723 12 8 | 710 10 3 | .. |
| Total .. | .. | 2,68,905 5 5 | 2,68,905 5 5 | 9,829 0 7 | 2,72,591 7 8 | 2,82,420 8 3 | 13,515 2 10 | .. |

Madras,
9th September 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 60.

*Forest Department, Madras Presidency, Central Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1895–96.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Central Circle .. .. .. .. | .. | 4,800 6 0 | 4,800 6 0 | 28 12 3 | 4,823 0 7 | 4,851 12 10 | 51 6 10 | .. |
| Forest Settlement-officer, North Arcot, &c. .. .. | .. | 259 9 8 | 259 9 8 | 10 0 0 | 252 7 2 | 262 7 2 | 2 13 6 | .. |
| Do. Trichinopoly, &c. .. | .. | 3,789 12 7 | 3,789 12 7 | 6 2 0 | 3,783 10 7 | 3,789 12 7 | .. | .. |
| Do. Nellore, &c. .. .. | .. | 1,029 1 7 | 1,029 1 7 | 31 7 6 | 1,019 2 11 | 1,050 10 5 | 21 8 10 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | .. | .. | .. | 60 0 0 | 60 0 0 | 60 0 0 | .. |
| Nellore .. .. .. .. .. .. | .. | 29,712 11 1 | 29,712 11 1 | 828 10 8 | 29,840 15 7 | 30,669 10 3 | 956 15 2 | .. |
| Cuddapah .. .. .. .. .. .. | .. | 62,325 9 6 | 62,325 9 6 | 1,127 4 3 | 63,320 2 6 | 64,447 6 9 | 2,121 13 3 | .. |
| Chingleput .. .. .. .. .. .. | .. | 26,597 11 2 | 26,597 11 2 | 499 2 7 | 26,957 7 0 | 27,456 9 7 | 858 14 5 | .. |
| North Arcot .. .. .. .. .. .. | .. | 56,658 11 10 | 56,658 11 10 | 2,476 0 4 | 55,553 0 9 | 58,029 1 1 | 1,370 5 3 | .. |
| South Arcot .. .. .. .. .. .. | .. | 49,667 0 3 | 49,667 0 3 | 2,018 3 4 | 50,343 10 6 | 52,361 13 10 | 2,694 13 7 | .. |
| Salem .. .. .. .. .. .. | .. | 1,09,003 12 9 | 1,09,003 12 9 | 4,129 11 7 | 1,09,730 14 4 | 1,13,860 9 11 | 4,856 13 2 | .. |
| Trichinopoly .. .. .. .. .. .. | .. | 31,638 15 5 | 31,638 15 5 | 1,112 0 5 | 30,839 6 4 | 31,951 6 9 | 312 7 4 | .. |
| Tanjore .. .. .. .. .. .. | .. | 5,646 1 11 | 5,646 1 11 | 87 15 3 | 5,975 10 10 | 6,068 10 1 | 417 8 2 | .. |
| Total .. | .. | 3,81,129 7 9 | 3,81,129 7 9 | 12,355 6 2 | 3,82,499 9 1 | 3,94,854 15 3 | 13,725 7 6 | .. |

Madras,
9th September 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 60.

*Forest Department, Madras Presidency, Southern Circle.*

OUTSTANDINGS and Liabilities on account of contractors and disbursers for the forest year 1895–96.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. |
| Direction Conservator, Southern Circle .. .. | .. | 9,785 6 7 | 9,785 6 7 | 29 5 3 | 9,780 13 11 | 9,810 3 2 | 24 12 7 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | .. | .. | 37 0 0 | .. | 37 0 0 | 37 0 0 | .. |
| Nilgiris .. .. .. .. .. .. .. | .. | 63,804 1 2 | 63,804 1 2 | 1,510 10 0 | 62,932 12 7 | 64,443 6 7 | 639 5 5 | .. |
| North Coimbatore .. .. .. .. .. | .. | 50,254 2 3 | 50,254 2 3 | 2,555 8 7 | 48,544 15 7 | 51,100 8 2 | 846 5 11 | .. |
| South Coimbatore .. .. .. .. .. | .. | 38,700 10 1 | 38,700 10 1 | 1,538 11 10 | 39,871 5 8 | 41,410 1 6 | 2,709 7 5 | .. |
| Madura .. .. .. .. .. .. .. | .. | 35,304 0 0 | 35,304 0 0 | 3,598 6 3 | 34,265 8 2 | 37,863 14 5 | 2,559 14 5 | .. |
| Tinnevelly .. .. .. .. .. .. | .. | 45,951 1 3 | 45,951 1 3 | 978 15 10 | 49,219 8 8 | 50,198 8 6 | 4,247 7 3 | .. |
| North Malabar .. .. .. .. .. .. | .. | 19,292 15 6 | 19,292 15 6 | 2,028 13 8 | 19,258 9 3 | 21,287 6 11 | 1,994 7 5 | .. |
| South Malabar .. .. .. .. .. .. | .. | 43,333 13 1 | 43,333 13 1 | 565 11 10 | 43,286 0 9 | 43,851 12 7 | 517 15 6 | .. |
| South Canara .. .. .. .. .. .. | .. | 29,961 8 3 | 29,961 8 3 | 1,212 3 6 | 31,488 15 9 | 32,701 3 3 | 2,739 11 0 | .. |
| Total .. | .. | 3,36,387 10 2 | 3,36,387 10 2 | 14,055 6 9 | 3,38,648 10 4 | 3,52,704 1 1 | 16,316 6 11 | .. |

MADRAS,
9th September 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 61.

*Forest Department, Madras Presidency, Northern Circle.*

REVENUE received and Outstandings on account of revenue for the forest year 1895–96.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. |
|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. |
| Direction .. .. | Timber and other forest produce. | .. | 2 4 0 | 2 4 0 | 2 4 0 | .. |
| Ganjám .. .. | Do. do. .. | .. | 56,965 1 6 | 56,965 1 6 | 56,937 9 6 | 27 8 0 |
| Vizagapatam .. .. | Do. do. .. | 76 12 3 | 44,971 6 5 | 45,048 2 8 | 40,796 0 8 | 4,252 2 0 |
| Gódávari .. .. | Do. do. .. | 309 0 0 | 1,09,757 8 6 | 1,10,066 8 6 | 1,10,066 8 6 | .. |
| Kistna .. .. .. | Do. do. .. | 546 5 4 | 1,38,146 7 11 | 1,38,692 13 3 | 1,38,656 8 2 | 36 5 1 |
| Kurnool .. .. | Do. do. .. | 480 0 0 | 1,50,683 0 7 | 1,51,163 0 7 | 1,46,228 9 11 | 4,934 6 8 |
| Bellary .. .. .. | Do. do. .. | 639 14 0 | 1,86,980 14 0 | 1,87,620 12 0 | 1,27,126 13 7 | 60,493 14 5 |
| Anantapur .. .. | Do. do. .. | .. | 1,04,122 7 9 | 1,04,122 7 9 | 1,04,044 7 9 | 78 0 0 |
| | Total .. | 2,051 15 7 | 7,91,629 2 8 | 7,93,681 2 3 | 7,23,858 14 1 | 69,822 4 2 |

MADRAS,
5th September 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 61.

*Forest Department, Madras Presidency, Central Circle.*

REVENUE received and Outstandings on account of revenue for the forest year 1895–96.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | |
| Direction .. .. | Timber and other forest produce. | .. | 10 8 0 | 10 8 0 | 10 8 0 | .. | |
| Nellore .. .. .. | Do. do. .. | 423 12 0 | 1,51,934 13 11 | 1,52,358 9 11 | 1,20,233 9 11 | 32,125 0 0 | |
| Cuddapah .. .. | Do. do. .. | 17 4 3 | 2,08,444 3 1 | 2,08,461 7 4 | 2,03,574 1 0 + (a) 0 8 0 | 4,886 14 4 | (a) Amount written off in Board's Proceedings, Forest Mis. No. 810, dated 12th June 1895. |
| Chingleput .. .. | Do. do. .. | .. | 26,930 5 0 | 26,930 5 0 | 25,469 13 0 | 1,460 8 0 | |
| North Arcot .. .. | Do. do. .. | 43,414 9 11 | 1,62,946 13 7 | 2,06,361 7 6 | 1,45,444 1 8 +(b) 1,374 6 6 | 59,542 15 4 | (b) Amount written off in Government Order, No. 626, Revenue Department, dated 12th September 1895 .. .. .. Rs. A. P. 33 14 0 |
| South Arcot .. .. | Do. do. ... | 28,994 11 7 | 83,605 1 6 | 1,12,599 13 1 | 96,010 13 7 | 16,588 15 6 | Amount written off in Government Order, No. 4171, Revenue Department, dated 23rd October 1895 .. .. 156 4 0 |
| Trichinopoly .. .. | Do. do. .. | 3,038 12 4 | 1,00,440 1 6 | 1,03,478 13 10 | 75,402 8 3 + (c) 166 0 0 | 27,910 5 7 | Amount written off in Government Order No. 118, Revenue Department, dated 16th March 1896 .. 73 0 0 |
| Salem .. .. .. | Do. do. .. | 726 15 10 | 2,60,245 4 9 | 2,60,972 4 7 | 2,57,801 12 11 | 3,170 7 8 | Amount written off in Government Order, No. 267, Revenue Department, dated 15th June 1896 .. 1,111 4 6 |
| | | | | | | | Total .. 1,374 6 6 |
| .. .. | Do. do. .. | 73 12 3 | 16,412 5 7 | 16,486 1 10 | 15,786 1 0 | 700 0 10 | (c) Amount written off in Governmen Order, No. 818, Revenue Department, dated 16th December 1895. |
| | Total .. | 76,689 14 2 | 10,10,969 8 11 | 10,87,659 7 1 | 9,39,733 5 4 + 1,540 14 6 | 1,46,385 3 3 | |

MADRAS,
5th September 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 61.

*Forest Department, Madras Presidency, Southern Circle.*

REVENUE received and Outstandings on account of revenue for the forest year 1895–96.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | |
| Direction .. .. .. | Timber and other forest produce. | .. | 3 0 0 | 3 0 0 | 3 0 0 | .. | |
| Nilgiris .. .. .. | Do. do. .. | 1,358 8 9 | 68,785 6 1 | 70,143 14 10 | 69,299 14 0 | 844 0 10 | |
| North Coimbatore .. | Do. do. .. | 18 10 9 | 77,421 9 0 | 77,440 3 9 | 69,219 5 8<br>+ (*a*) 18 7 1 | 8,202 7 3 | (*a*) Rs. 1-15-6 written off—*vide* Govt., Order, No. 626, dated 12th September 1895. |
| South Coimbatore .. | Do. do. .. | 110 7 8 | 91,107 15 3 | 91,218 6 11 | 89,507 6 11 | 1,711 0 0 | ,, 16-7-7 written off—*vide* Govt., Order, No. 818, dated 16th December 1895. |
| | | | | | | | Rs. 18-7-1 |
| Madura .. .. .. | Do. do. .. | 7,992 10 10 | 55,340 3 7 | 63,332 14 5 | 57,071 13 7 | 6,261 0 10 | |
| Tinnevelly .. .. | Do. do. .. | 132 2 0 | 89,984 5 8 | 90,116 7 8 | 89,024 8 11<br>+ (*b*) 13 1 6 | 1,078 13 3 | (*b*) Amount written off in Government Order, No. 626, Revenue Department dated 12th September 1895. |
| North Malabar .. .. | Do. do. .. | 508 6 8 | 16,263 12 7 | 16,772 3 3 | 16,105 8 7 | 666 10 8 | |
| South Malabar .. .. | Do. do. .. | .. | 57,560 4 5 | 57,560 4 5 | 55,536 12 5 | 2,023 8 0 | |
| South Canara .. .. | Do. do. .. | 50 2 0 | 58,222 15 8 | 58,273 1 8 | 58,270 1 8 | 3 0 0 | |
| | Total .. | 10,171 0 8 | 5,14,689 8 3 | 5,24,860 8 11 | 5,04,038 7 9<br>+ 31 8 7 | 20,790 8 7 | |

MADRAS,
5th September 1896.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 62.

*Forest Department, Madras Presidency.*

### Financial results of the year 1895–96.

| District. | Timber and other produce removed from the forests by Government Agency. | | Other revenue. | | Formation, protection and improvement of forests. | Total. | |
|---|---|---|---|---|---|---|---|
| | Receipts. | Charges. | Receipts. | Charges. | Charges. | Receipts. | Charges. |
| ***Northern Circle.*** | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Ganjám .. .. .. | 11,199 | 9,407 | 45,739 | 21,820 | 22,453 | 56,938 | 53,680 |
| Vizagapatam .. .. | 595 | 2,044 | 40,201 | 16,980 | 15,101 | 40,796 | 34,125 |
| Gódávari .. .. | 1,667 | 1,373 | 1,08,400 | 36,554 | 16,584 | 1,10,067 | 54,511 |
| Kistna .. .. .. | 452 | 1,213 | 1,38,204 | 36,306 | 42,845 | 1,38,656 | 80,364 |
| Kurnool .. .. .. | 7,496 | 6,670 | 1,38,735 | 41,552 | 25,499 | 1,46,231 | 73,721 |
| Bellary .. .. .. | 8,388 | 8,485 | 1,18,739 | 19,320 | 25,642 | 1,27,127 | 53,447 |
| Anantapur .. .. | .. | .. | 1,04,044 | 19,798 | 14,231 | 1,04,044 | 34,029 |
| Total .. | * 29,797 | 29,192 | 6,94,062 | 1,92,330 | 1,62,355 | 7,23,859 | 3,83,877 |
| ***Central Circle.*** | | | | | | | |
| Nellore .. .. .. | 32,007 | 22,695½ | 88,227 | 14,865¾ | 14,238¾ | 1,20,234 | 51,800 |
| Cuddapah .. .. | 34,055 | 22,580½ | 1,69,519 | 36,610⅓ | 24,965⅓ | 2,03,574 | 84,156 |
| Chingleput .. .. | 107 | 2,128½ | 25,363 | 14,886½ | 14,398⅔ | 25,470 | 31,414 |
| North Arcot .. .. | 15,436 | 13,498 | 1,30,008 | 23,623½ | 58,607½ | 1,45,444 | 95,729 |
| South Arcot .. .. | 5,766 | 7,313½ | 90,245 | 29,890 | 30,777⅔ | 96,011 | 67,981 |
| Salem .. .. .. | 64,618 | 54,551⅔ | 1,93,194 | 41,133⅚ | 70,803⅓ | 2,57,812 | 1,66,489 |
| Trichinopoly .. .. | 8,811 | 8,400½ | 66,591 | 25,331⅙ | 21,435⅔ | 75,402 | 68,250 |
| Tanjore .. .. .. | .. | 999⅖ | 15,786 | 3,839⅔ | 3,419⅔ | 15,786 | 8,258 |
| Total .. | 1,60,800 | 1,32,168¼ | 7,78,933 | 1,90,180½ | 2,38,646¼ | 9,39,733 | 5,60,995 |
| ***Southern Circle.*** | | | | | | | |
| South Canara .. .. | 15,598 | 21,063 | 42,672 | 16,504 | 14,470 | 58,270 | 52,037 |
| North Malabar .. .. | 6,163 | 27,902 | 9,943 | 3,087 | 11,520 | 16,106 | 42,509 |
| South Malabar .. .. | 35,074 | 35,336 | 20,463 | 195 | 26,660 | 55,537 | 63,191 |
| Nilgiris .. .. .. | 49,187 | 49,042 | 20,114 | 4,304 | 36,579 | 69,301 | 89,925 |
| North Coimbatore .. | 4,624 | 7,634 | 64,595 | 7,293 | 44,697 | 69,219 | 59,624 |
| South Coimbatore .. | 45,757 | 59,748 | 43,751 | 8,939 | 31,292 | 89,508 | 99,979 |
| Madura .. .. .. | 7,764 | 11,328 | 49,308 | 8,015 | 30,401 | 57,072 | 49,744 |
| Tinnevelly .. .. | 15,684 | 21,430 | 73,341 | 5,693 | 39,984 | 89,025 | 67,107 |
| Total .. | 1,79,851 | 2,34,483 | 3,24,187 | 54,030 | 2,35,603 | 5,04,038 | 5,24,116 |
| Grand Total .. | 3,70,448 | 3,94,843¼ | 17,97,182 | 4,36,540½ | 6,36,604¼ | 21,67,630 | 14,68,988 |

* The Conservator has not explained the difference between these figures and those given by the Accountant-General in Form No. 59.

## ANNUAL FORM No. 63.

*Forest Department, Madras Presidency.*

## STATEMENT of Elephants during the year 1895–96.

### PART I.

*In possession of the reporting officers throughout the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average cost of monthly keep, including servants and food. | Rs. | A. | P. |
|---|---|---|---|---|---|---|
| Conservator, Northern Circle. | Captain Gunning .. .. | Purchased in July 1895 .. .. .. | Per head .. | | (a) | |
| Ganjám .. .. | Kesari Pyari .. .. | Purchased in November 1894 at the Sonepur fair. | Do. .. | 37 | 1 | 3 |
| Gódávari .. | Surat Pari .. .. .. | Do. do. .. | Do. .. | 51 | 8 | 6 |
| Kurnool .. .. | Byragi Piari .. .. | Do. do. .. | Do. .. | 46 | 8 | 6 |
| South Coimbatore. | 1. Sankara .. .. | Received from North Malabar on 28th June 1888. | Do. .. | 39 | 4 | 10 |
| | 2. Chlœ .. .. | Do. | | | | |
| | 3. Karthiyayani .. .. | Received from South Malabar, August 1888. | | | | |
| | 4. Peria Rani .. .. | Do. do. May 1889. | | | | |
| | 5. Sinna Rani .. .. | Do. do. 19th August 1891. | | | | |
| | 6. Phyllis, II .. .. | Captured, 25th September 1892 .. | | | | |
| | 7. Jumbu, II .. .. | Do. | | | | |
| | 8. Ranger .. .. | Do. 23rd July 1893 .. .. | | | | |
| Nilgiris .. .. | 1. Latchmi .. .. | Transferred from the Anamalais on the 30th January 1892 .. .. | Do. .. | 46 | 14 | 5 |
| | 2. Chinna Latchmi .. | Do. | | | | |
| | 3. Akbar Baksh .. .. | Born in 22nd February 1888 .. .. | | | | |
| | 4. Meenatchi .. .. | Do. in 9th April 1889 .. .. .. | | | | |
| | 5. N. Latchmi .. .. | Purchased in September 1894 .. .. | | | | |
| South Canara .. | Canara Shankara .. | Do. on 2nd August 1894 .. .. | Do. .. | 38 | 9 | 3 |
| South Malabar .. | 1. Vixen .. .. .. | Transferred from Wynaad in 1882 .. | Do. .. | 27 | 12 | 9 |
| | 2. Peyru .. .. .. | Do. | | | | |
| | 3. Samson .. .. | Purchased from Mr. Morgan in 1885.. | | | | |
| | 4. Eva .. .. .. | Do. | | | | |
| | 5. Theebow .. .. | Captured on 3rd January 1886 .. | | | | |
| | 6. Juno .. .. .. | Do. on 17th February 1886 .. | | | | |
| | 7. Jupiter .. .. | Do. on 9th January 1887 .. .. | | | | |
| | 8. Maharajah .. .. | Transferred from Wynaad on 29th September 1888. | | | | |
| | 9. Jumbu .. .. | Do. | | | | |
| | 10. Gordon .. .. | Captured on 11th February 1889 .. | | | | |
| | 11. Eddy .. .. .. | Do. on 10th February 1890 .. | | | | |
| | 12. Mary .. .. .. | Do. on 31st March 1890 .. .. | | | | |
| | 13. Loo .. .. .. | Do. on 21st April 1890 .. .. | | | | |
| | 14. Hercules .. .. | Do. on 24th December 1890 .. | | | | |
| | 15. Parvathi .. .. | Transferred from South Coimbatore in August 1891 | | | | |
| | 16. Jessie .. .. .. | Captured on 10th December 1891 .. | | | | |
| | 17. Tippu .. .. .. | Do. on 25th February 1893 .. | | | | |
| | 18. Maharani .. .. | Do. on 2nd March 1893 .. .. | | | | |
| | 19. Venus .. .. .. | Do. on 1st April 1893 .. .. | | | | |
| | 20. Alice .. .. .. | Transferred from South Coimbatore in December 1893. | | | | |
| | 21. Pragasam .. .. | Do. | | | | |
| | 22. Dora .. .. .. | Captured on 16th March 1894 .. .. | | | | |
| | 23. Bagavathy .. .. | Do. on 27th June 1893 and transferred from North Malabar on 29th August 1894. | | | | |
| | 24. Charlie .. .. | Captured in February 1893 and transferred from North Malabar on 29th August 1894. | | | | |
| | 25. Percy .. .. .. | Captured on 22nd November 1894 .. | | | | |
| | 26. May .. .. .. | Do. on 23rd November 1894 .. | | | | |
| | 27. Harry .. .. .. | Do. on 11th February 1895 .. | | | | |
| North Malabar .. | 1. Phyllis .. .. | Purchased in January 1878 .. .. | Do. .. | 41 | 9 | 10 |
| | 2. Peri .. .. .. | Captured in April 1889 .. .. .. | Do. .. | 37 | 8 | 4 |
| | 3. Kalyani .. .. | Purchased in October 1889 .. .. | Do. .. | 38 | 7 | 0 |
| | 4. Lallameah .. .. | Captured in March 1891 .. .. | Do. .. | 40 | 5 | 10 |
| | 5. Cherry.. .. .. | Do. in May 1892 .. .. .. | Do. .. | 29 | 11 | 10 |

(a) Not reported.

## PART II.

*Elephants received in the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average cost of monthly keep, including servants and food. | RS. A. P. |
|---|---|---|---|---|
| | *Elephants.* | | | |
| Nilgiris .. | 1. Ethel .. .. .. | Captured on 18th April 1895 and transferred from North Malabar in June 1896. | Per head .. | 25 10 8 |
| | 2. Seetha .. .. | Captured on 13th September 1895 and transferred form North Malabar in June 1896. | Do. .. | 15 10 8 |
| South Malabar .. | 1. Mars .. .. | Captured, 11th January 1896 .. .. | Do. .. | 8 12 9 |
| | 2. Abdul .. .. | Captured, 4th October 1891 and transferred from South Coimbatore on 18th June 1896 .. .. .. .. | Do. .. | 13 0 0 |
| North Malabar .. | 1. Umrakhan, II .. | Captured, 30th September 1895 .. .. | Do. | 13 8 4 |
| | 2. Moideenkhan .. | Do. 3rd Jan. 1896 .. .. | | 24 11 5 |
| | 3. Gunga prashad .. | Do. 6th Feb. ,, .. .. | | .. |
| | 4. Padmini .. .. | Do. 8th ,, ,, .. .. | | 27 15 0 |
| | 5. Draupathi .. .. | Do. 15th ,, ,, .. .. | | 18 15 8 |
| | 6. Mothy .. .. | Do. 22nd ,, ,, .. .. | | 20 0 7 |
| | 7. Kadar Baksh .. | Do. 29th ,, ,, .. .. | | 29 13 2 |
| | 8. Krishna .. .. | Do. 3rd Mar. ,, .. .. | | 24 15 3 |
| | 9. Zahara .. .. | Do. 14th ,, ,, .. .. | | 16 15 8 |
| | 10. Shegarem .. .. | Do. 14th ,, ,, .. .. | | 8 14 6 |
| | 11. Pyrrha .. .. | Do. 13th April ,, .. .. | | 18 0 10 |
| | 12. Thisbee .. .. | Do. 15th ,, ,, .. .. | | 43 9 10 |
| | 13. Saraswathi .. .. | Do. 29th May ,, .. .. | | 26 3 2 |
| | 14. Plato .. .. | Do. 27th ,, ,, .. .. | | .. |
| | 15. Colleen .. .. | Do. 28th June ,, .. .. | | .. |
| | 16. Seetha .. .. | Do. 13th Sept. 1895 .. .. | | 27 4 3 |

## PART III.

*Elephants gone off the list during the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average cost of monthly keep, including servants and food. | RS. A. P. | How disposed of. |
|---|---|---|---|---|---|
| | *Elephants.* | | | | |
| Vizagapatam.. | Mothimala .. | Purchased in November 1894 at the Sonepur fair. | Per head .. | * 85 8 0 | Died on 18th April 1896. |
| South Coimbatore. | Abdul .. .. | Captured on 4th October 1891. | Do. .. | 39 4 9 | Transfererd to South Malabar in June 1896. |
| South Malabar. | Cerise .. | Captured on the 20th October 1893 and received from South Coimbatore on 7th March 1895. | Do. .. | 27 8 0 | Died on 26th October 1895. |
| North Malabar. | 1. Ethel .. .. | Captured on 18th April 1895. | Do. .. | 34 5 2 | Transferred to Nilgiris. |
| | 2. Seetha .. | Do. on 13th Sept. ,, | Do. .. | 27 4 3 | |
| | 3. Umrakhan, II. | Do. on 30th Sept. ,, | Do. .. | 13 8 4 | Sold for Rs. 625. |
| | 4. Gungaprashad. | Do. on 6th Feb. 1896. | Do. .. | .. | Shot in the Kraal. |
| | 5. Ashee Bee .. | Do. on 21st June 1895. | Do. .. | 27 9 11 | Sold in auction. |

* Includes cost of medicine and harness.

## ANNUAL FORM No. 64.

*Forest Department, Madras Presidency.*

ABSTRACT showing the Value of Live-stock, Stores, Tools and Plant for 1895-96.

| Districts. | Surveying, &c., instruments | | | | Tools | | | | Machinery | | | | Furniture | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Northern Circle.* | | RS. | | RS. | | RS. | | RS. | | RS. | | RS. | | RS. | | RS. |
| Direction | 24 | 402 | 24 | 402 | .. | .. | .. | .. | .. | .. | .. | .. | 109 | 1,790 | 109 | 1,790 |
| Ganjám | 36 | 817 | 42 | 900 | 273 | 435 | 271 | 404 | .. | .. | .. | .. | 77 | 556 | 78 | 548 |
| Vizagapatam | 20 | 356 | 20 | 356 | 164 | 206 | 164 | 206 | .. | .. | .. | .. | 45 | 371 | 45 | 371 |
| Gódávari | (a) 60 | 534 | 64 | 567 | 648 | 1,244 | 682 | 1,296 | .. | .. | .. | .. | 85 | 658 | 86 | 661 |
| Kistna | 67 | 1,042 | 67 | 1,236 | 465 | 594 | 468 | 653 | .. | .. | .. | .. | 89 | 796 | 112 | 955 |
| Kurnool | 58 | 621 | 72 | 655 | 922 | 1,225 | 1,029 | 1,157 | .. | .. | .. | .. | 118 | 766 | 133 | 800 |
| Bellary | 83 | 220 | 83 | 201 | 305 | 453 | 334 | 458 | .. | .. | .. | .. | 45 | 302 | 45 | 282 |
| Anantapur | (a) 53 | 257 | 53 | 240 | 226 | (a) 752 | 240 | 723 | .. | .. | .. | .. | 84 | 552 | 91 | 553 |
| Total, Northern Circle | 401 | 4,249 | 425 | 4,557 | 3,003 | 4,909 | 3,188 | 4,897 | .. | .. | .. | .. | 652 | 5,791 | 699 | 5,960 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Direction | * 49 | * 830 | 49 | 830 | .. | .. | .. | .. | .. | .. | .. | .. | * 100 | * 1,022 | 100 | 1,022 |
| Cuddapah | (a) 102 | (a) 724 | 125 | 628 | (a) 469 | (a)1,377 | 475 | 1,356 | 3½ miles | 13,967 | 3½ miles | 13,967 | 120 | (a) 841 | 118 | 872 |
| Nellore | 56 | 389 | 57 | 390 | 430 | 1,101 | 430 | 1,101 | 21 9¾ miles | 34,802 | 246 9¾ miles | 35,031 | 74 | 416 | 87 | 600 |
| Chingleput | 21 | 368 | 21 | 368 | 393 | 733 | 405 | 778 | .. | .. | .. | .. | 73 | 698 | 73 | 698 |
| North Arcot | 21 | 602 | 20 | 542 | 1,352 cwt. 33 | 2,011 | 1,350 cwt. 33 | 1,780 | 13 | 88 | 13 | 79 | 134 | 521 | 152 | 570 |
| South Arcot | * 118 | 1,415 | 118 | 1,415 | 1,001 | 710 | 1,001 | 710 | 7 | 271 | 7 | 271 | 178 | 1,590 | 192 | 1,714 |
| Salem | 126 | 1,413 | 133 | 1,458 | 1,603 | 2,960 | 1,620 | 3,007 | 2 | 21 | 2 | 21 | 327 | 1,505 | 341 | 1,658 |
| Trichinopoly | 39 | 412 | 55 | 419 | (a) 973 | (a)1,163 | 1,053 | 613 | (b) 2 | (b) 20 | 2 | 10 | 100 | 769 | 123 | 690 |
| Tanjore | 26 | (b) 116 | 21 | 105 | 177 | (a) 140 | 110 | 86 | .. | .. | .. | .. | 79 | (a) 327 | 78 | 352 |
| Total, Central Circle | 558 | 6,269 | 599 | 6,155 | 6,398 cwt. 33 | 10,195 | 6,444 cwt. 33 | 9,431 | 45 13¾ miles. | 49,169 | 270 13¾ miles. | 49,379 | 1,185 | 7,689 | 1,264 | 8,176 |

(a) Collectors do not explain the variations between these figures and those of previous year's closing balance.

(b) Omitted to be shown in last year's return.

* Revised figures.

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for 1895-96—*cont.*

| Districts. | Buildings | | | | Live-stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Northern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | (*b*) 1 | (*c*) .. | 1 | (*c*) .. | .. | .. | .. | .. | 134 | 2,192 | 134 | 2,192 | .. | .. |
| Ganjám .. .. | 22 | 15,904 | 24 | 15,766 | 1 | 1,800 | 1 | 1,800 | .. | .. | .. | .. | 409 | 19,512 | 416 | 1,948 | .. | 94 |
| Vizagapatam .. .. | 18 | 1,035 | 18 | 1,035 | 1 | (*c*) .. | .. | .. | 1 | 10 | 1 | 10 | 249 | 1,978 | 249 | 1,978 | .. | .. |
| Gódávari .. .. | 37 | 25,217 | 44 | 26,565 | .. | .. | .. | .. | (*e*) 190 | 2,660 | 189 | 2,340 | 1,020 | 30,313 | 1,065 | 31,429 | 1,116 | .. |
| Kistna .. .. .. | 57 | 11,123 | 61 | 12,273 | .. | .. | .. | .. | 7 | 2,610 | 5 | 2,000 | 685 | 16,165 | 713 | 17,117 | 952 | .. |
| Kurnool .. .. | 58 | 25,136 | 56 | 29,361 | (*b*) 1 | 1,600 | 1 | 1,600 | 18 | 93 | 20 | 169 | 1,175 | 29,441 | 1,311 | 33,742 | 4,301 | .. |
| Bellary .. .. .. | 16 | 3,481 | 22 | 3,948 | .. | .. | .. | .. | 26 | 82 | 27 | 84 | 475 | 4,538 | 511 | 4,973 | 435 | .. |
| Anantapur .. .. | 13 | 12,800 | 14 | 12,808 | .. | .. | .. | .. | .. | .. | .. | .. | 376 | 14,361 | 398 | 14,324 | .. | 37 |
| Total, Northern circle.. | 221 | 94,696 | 239 | 1,01,756 | 4 | 3,400 | 3 | 3,400 | 242 | 5,455 | 242 | 4,603 | 4,523 | 1,18,500 | 4,797 | 1,25,173 | 6,673 | .. |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 149 | 1,852 | 149 | 1,852 | .. | .. |
| Cuddapah .. .. | 109 | (*a*) 19,465 | 108 | 19,985 | 1 | 18 | 1 | 18 | .. | .. | .. | .. | 801 / 3½ miles | 36,392 | 827 / 3½ miles | 36,826 | 434 | .. |
| Nellore .. .. .. | 9 | 2,079 | 9 | 2,079 | .. | .. | .. | .. | 241 | 5,154 | 241 | 5,154 | 831 / 9¾ miles | 43,941 | 1,070 / 9¾ miles | 44,355 | 414 | .. |
| Chingleput .. .. | 17 | 4,086 | 17 | 4,300 | .. | .. | .. | .. | 31 | 27 | 31 | 27 | 535 | 5,912 | 547 | 6,171 | 259 | .. |
| North Arcot .. .. | (*d*) 40 | 8,296 | 41 | 8,298 | .. | .. | .. | .. | .. | .. | .. | .. | 1,560 / 33 cwt. | 11,518 | 1,576 / 33 cwt. | 11,269 | .. | 249 |
| South Arcot .. .. | 17 | 9,161 | 18 | 9,532 | .. | .. | .. | .. | 584 | 1,611 | 591 | 1,611 | 1,905 | 14,758 | 1,927 | 15,253 | 495 | .. |
| Salem .. .. | 19 | 13,971 | 19 | 15,489 | .. | .. | .. | .. | 3 | 84 | 4 | 87 | 2,080 | 19,954 | 2,119 | 21,720 | 1,766 | .. |
| Trichinopoly .. .. | 9 | 1,832 | 9 | 2,530 | .. | .. | .. | .. | (*a*) 1,126 | (*a*) 427 | 1,118 | 603 | 2,249 | 4,623 | 2,360 | 4,865 | 242 | .. |
| Tanjore .. .. | 10 | 460 | 8 | 441 | .. | .. | .. | .. | .. | .. | .. | .. | 292 | 1,043 | 217 | 984 | .. | 59 |
| Total, Central circle .. | 230 | 59,350 | 229 | 62,654 | 1 | 18 | 1 | 18 | 1,985 | 7,303 | 1,985 | 7,482 | 13¼ miles / 33 cwt. / 10,402 | 1,39,993 | 13¼ miles / 33 cwt. / 10,792 | 1,43,295 | 3,302 | .. |

(*a*) Collectors do not explain the variations between these figures and those of previous year's closing balance.
(*b*) Omitted to be shown in last year's return. (*c*) Not reported. (*d*) Shown wrongly in previous year's return under "*Miscellaneous.*"
(*e*) Uniforms, kumblees, buttons, &c., received for supply to the Forest Guards are removed from this return.

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for 1895-96—*cont.*

| Districts. | Surveying, &c., instruments | | | | Tools | | | | Machinery | | | | Furniture | | | | Building materials, &c., small store tents, &c. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 (*a*) | (*b*) | (*c*) | (*d*) |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Direction .. .. | 41 | 454 | 41 | 454 | 1 | 30 | 1 | 30 | .. | .. | .. | .. | 95 | 720 | 97 | 723 | .. | .. | .. | .. |
| South Canara .. | 98 | 1,066 | 109 | 1,092 | 512 | 691 | 544 | 725 | .. | .. | .. | .. | 144 | 1,248 | 157 | 1,325 | .. | .. | .. | .. |
| North Malabar .. | (*a*) 44 | (*a*)1,062 | 47 | 1,104 | (*a*) 517 | (*a*)1,165 | 626 | 1,423 | .. | .. | .. | .. | (*b*) 85 | 664 | 87 | 692 | .. | .. | .. | .. |
| South do. .. | 23 | 915 | 27 | 939 | 541 | 601 | 589 | 637 | 10 | 60 | 12 | 103 | 40 | 395 | 64 | 525 | .. | .. | .. | .. |
| Nilgiris .. .. | 29 | 437 | 57 | 986 | 1,000 | 1,674 | 783 | 1,277 | 2 | 500 | 3 | 750 | 82 | 562 | 122 | 691 | .. | .. | .. | .. |
| North Coimbatore | 60 | 1,321 | 71 | 1,344 | 421 | 1,176 | 516 | 933 | .. | .. | .. | .. | 157 | 1,357 | 173 | 1,371 | 66 | 296 | 73 | 294 |
| South do. .. | (*a*) 78 | (*a*)1,601 | 78 | 1,583 | (*a*) 588 | (*a*) 618 | 583 | 601 | (*a*) 6,560 | (*d*) 264 | 6,560 | 255 | 320 | 1,903 | 365 | 2,213 | .. | .. | .. | .. |
| Madura (*c*) .. | 45 | 1,267 | 54 | 1,283 | 523 | 932 | 1,107 | 931 | .. | .. | .. | .. | 201 | 1,122 | 214 | 1,124 | .. | .. | .. | .. |
| Tinnevelly .. | (*a*) 92 | 1,592 | 92 | 1,592 | 377 | 1,784 | 453 | 1,515 | (*a*) 15 | (*a*) 289 | 15 | 289 | (*a*) 332 | 1,962 | 337 | 2,142 | .. | .. | .. | .. |
| Total .. | 510 | 9,715 | 576 | 10,377 | 4,480 | 8,671 | 5,202 | 8,072 | 6,587 | 1,113 | 6,590 | 1,397 | 1,456 | 9,933 | 1,616 | 10,806 | 66 | 296 | 73 | 294 |
| Grand Total .. | 1,469 | 20,233 | 1,600 | 21,089 | cwt. 33 13,881 | 23,775 | cwt. 33 14,834 | 22,400 | mls 13¾ 6,632 | 50,282 | mls 13¾ 6,860 | 50,776 | 3,298 | 23,413 | 3,579 | 24,942 | 66 | 296 | 73 | 294 |

(*a*) Collectors do not explain the variations between these figures and those of previous year's closing balance.
(*b*) Omitted to be shown in last year's return.
(*c*) The opening balance has been revised by the Collector.
(*d*) The cost of tramway materials has not been given.

## Abstract showing the Value of Live-stock, Stores, Tools and Plant for the year 1895-96—*cont.*

| Districts. | Buildings | | | | Live-stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 623 | 549 | 646 | 574 | 760 | 1,753 | 785 | 1,781 | 28 | .. |
| South Canara .. .. | 22 | 7,533 | 21 | 7,458 | 1 | (*b*).. | 1 | (*b*) .. | 463 | 1,415 | 613 | 1,656 | 1,240 | 11,953 | 1,445 | 12,256 | 303 | .. |
| North Malabar .. | .. | .. | .. | .. | 10 | 8,450 | 22 | 29,350 | 8 | 61 | Not reported. | | 684 | 11,402 | 782 | 32,569 | 21,167 | .. |
| South do. .. .. | 24 | 31,730 | 27 | 33,346 | 28 | 34,000 | 29 | 37,500 | (*c*) 139 | 1,200 | 211 | 1,371 | 805 | 68,901 | 959 | 74,421 | 5,520 | .. |
| Nilgiris .. .. .. | 48 | 6,203 | 53 | 6,062 | 5 | 3,500 | 6 | 5,500 | 17 | 146 | 21 | 179 | 1,183 | 13,022 | 1,045 | 15,445 | 2,423 | .. |
| North Coimbatore .. | 51 | 13,020 | 49 | 12,313 | .. | .. | .. | .. | (*a*) 237 | (*a*) 294 | 319 | 476 | 992 | 17,464 | 1,201 | 16,731 | .. | 733 |
| South do. .. | (*a*) 48 | (*a*) 27,463 | 48 | 27,463 | 9 | (*a*) 9,300 | 8 | 8,100 | (*a*) 136 | (*a*) 736 | 136 | 736 | (*a*) 7,739 | 41,885 | 7,778 | 40,951 | .. | 934 |
| Madura .. .. .. | 74 | 22,549 | 74 | 22,549 | .. | .. | .. | .. | .. | .. | .. | .. | 843 | 25,870 | 1,449 | 25,887 | 17 | .. |
| Tinnevelly .. .. | 105 | (*a*) 20,604 | 111 | 22,434 | .. | .. | .. | .. | .. | .. | .. | .. | 921 | 26,231 | 1,008 | 27,972 | 1,741 | .. |
| Total .. | 372 | 1,29,102 | 383 | 1,31,625 | 53 | 55,250 | 66 | 80,450 | 1,623 | 4,401 | 1,946 | 4,992 | 15,167 | 2,18,481 | 16,452 | 2,48,013 | 29,532 | .. |
| Grand Total .. | 823 | 2,83,148 | 851 | 2,96,035 | 58 | 58,668 | 70 | 83,868 | 3,850 | 17,159 | 4,173 | 17,077 | cwt. 33 mls. 13¼ 30,092 | 4,76,974 | cwt. 33 mls. 13¼ 32,041 | 5,16,481 | 39,507 | .. |

(*a*) Collectors do not explain the variations between these figures and those of previous year's closing balance.
(*b*) Not reported and omitted to be shown in the last year's statement.
(*c*) Two of these were omitted to be shown in the last year.

# FORM No. 65.

## Tramway Statement.

**STATEMENT showing the results of transport of wood by tramway compared with transport by country carts.**

**Nellore District.**

### i. Sríharikóta Range.

*Capital Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1893–94 .. .. | .. | 20,376 | 13 | 3 | By depreciation at 6 per cent. | .. .. | 1,242 | 5 | 6 |
| Add cost of 6 shovels purchased | .. | 12 | 8 | 0 | ,, balance of stock .. | .. .. | 19,463 | 5 | 9 |
| ,, cost of repairing ten waggons | .. | 316 | 6 | 0 | | | | | |
| Total .. | | 20,705 | 11 | 3 | Total .. | | 20,705 | 11 | 3 |

*Revenue Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. | .. | 753 | 6 | 4 | By balance written off .. | .. .. | 3,064 | 8 | 11 |
| ,, road-making, repairs, &c. .. | .. | 240 | 9 | 5 | | | | | |
| ,, interest at 4 per cent. .. .. | .. | 828 | 3 | 8 | | | | | |
| ,, depreciation at 6 per cent. .. | .. | 1,242 | 5 | 6 | | | | | |
| Total .. | | 3,064 | 8 | 11 | Total .. | | 3,064 | 8 | 11 |

*Work done*—2,414 tons of fuel carried over 5¾ miles = 13,880 ton miles.
*Actual cost of work*—13,880 ton miles at about As. 3–7 per mile = Rs. 3,064–8–11.
*Estimated cost of carting*—13,880 ton miles at As. 4–3 per mile = Rs. 3,660–14–5.

*Capital Account* 1895–96.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1894–95 .. .. | | 19,463 | 5 | 9 | By depreciation at 6 per cent. | .. .. | 1,173 | 3 | 4 |
| Add cost of iron caps and brass journals purchased. | | 90 | 1 | 8 | ,, balance of stock .. | .. .. | 18,380 | 4 | 1 |
| Total .. | | 19,553 | 7 | 5 | Total .. | | 19,553 | 7 | 5 |

*Revenue Account*, 1895—96.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. | .. | 613 | 12 | 1 | By balance written off .. | .. .. | 2,874 | 14 | 0 |
| ,, road-making, repairs, &c. .. | .. | 305 | 12 | 4 | | | | | |
| ,, interest at 4 per cent. .. | .. | 782 | 2 | 3 | | | | | |
| ,, depreciation .. .. .. | .. | 1,173 | 3 | 4 | | | | | |
| Total .. | | 2,874 | 14 | 0 | Total .. | | 2,874 | 14 | 0 |

*Work done*— { 1,516 tons of fuel carried over 5¾ miles = 8,717 ton miles.
{ 407 ,, of ,, ,, over 1 mile = 407.
9,124 ton miles.

*Actual charges for carrying*—9,124 ton miles at about As. 5–0 = Rs. 2,874–14–0.
*Estimated cost of carting*—9,124 ton miles at As. 5–5 per mile = Rs. 3,088–13–8.

ABSTRACT.

| Year. | Profit. Rs. | A. | P. | Loss. Rs. | A. | P. |
|---|---|---|---|---|---|---|
| 1889–90 .. .. .. .. .. .. .. .. | .. | | | 829 | 15 | 11 |
| 1890–91 .. .. .. .. .. .. .. .. | .. | | | 701 | 12 | 9 |
| 1891–92 .. .. .. .. .. .. .. .. | .. | | | 1,063 | 15 | 9 |
| 1892–93 .. .. .. .. .. .. .. .. | 132 | 15 | 1 | .. | | |
| 1893–94 .. .. .. .. .. .. .. .. | 905 | 0 | 1 | .. | | |
| 1894–95 .. .. .. .. .. .. .. .. | 596 | 5 | 6 | .. | | |
| 1895–96 .. .. .. .. .. .. .. .. | 213 | 15 | 8 | .. | | |
| Total .. | 1,848 | 4 | 4 | 2,595 | 12 | 5 |
| Net loss up to end of 30th June 1896 .. | .. | | | 747 | 8 | 1 |

### ii. Casuarina Plantation Range.

*Capital Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1893–94 .. .. | .. | 14,971 | 9 | 9 | By depreciation at 6 per cent. | .. .. | 898 | 4 | 3 |
| | | | | | Balance of stock .. | .. .. | 14,073 | 5 | 6 |
| Total .. | | 14,971 | 9 | 9 | Total .. | | 14,971 | 9 | 9 |

*Revenue Account*, 1894–95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. |
|---|---|---|---|---|---|---|---|
| To working expenses .. .. | .. | 189 | 4 | 7 | By balance written off .. | .. .. | 1,686 | 6 | 4 |
| ,, interest at 4 per cent. .. | .. | 598 | 13 | 6 | | | | | |
| ,, depreciation at 6 per cent. .. | .. | 898 | 4 | 3 | | | | | |
| Total .. | | 1,686 | 6 | 4 | Total .. | | 1,686 | 6 | 4 |

*Work done*—1,323⅜ tons of wood carried over 4 miles = 5,293½ ton miles.
*Actual charge for carrying*—5,293½ ton miles at about As. 5–1 per mile = Rs. 1,686–6–4.
*Estimated cost by country carts*—5,293½ ton miles at As. 14–6 per mile = Rs. 4,797–3–9.*

* This differs from the figures returned last year. On verification it has been found that the rate by country carts was, by an oversight, taken to be As. 5–6 instead of As. 14–6 per mile.

*Capital Account*, 1895-96.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1894-95 .. .. | | 14,073 | 5 | 6 | By depreciation at 6 per cent. .. .. | | 844 | 6 | 5 |
| | | | | | Balance of stock .. .. .. .. | | 13,228 | 15 | 1 |
| Total .. | | 14,073 | 5 | 6 | Total .. | | 14,073 | 5 | 6 |

*Revenue Account*, 1895-96.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | | 302 | 7 | 8 | By balance written off .. .. .. | | 1,799 | 14 | 8 |
| „ cost of caps and journals purchased.. | | 90 | 1 | 8 | | | | | |
| „ interest at 4 per cent. .. .. | | 562 | 14 | 11 | | | | | |
| „ depreciation at 6 per cent. .. .. | | 844 | 6 | 5 | | | | | |
| Total .. | | 1,799 | 14 | 8 | Total .. | | 1,799 | 14 | 8 |

*Work done*—1,262 tons of casuarina wood over 4 miles = 5,048 ton miles.
*Actual charge for carrying*—5,048 ton miles at about As. 5-8 per mile = Rs. 1,799-14-8.
*Estimated cost by country carts*—5,048 ton miles at As. 14-10 per mile = Rs. 4,679-14-8.

ABSTRACT.

| Year. | Profit. Rs. | A. | P. | Loss. Rs. | A. | P. |
|---|---|---|---|---|---|---|
| 1885-86 .. .. .. .. .. .. .. | 1,070 | 10 | 9 | .. | | |
| 1886-87 .. .. .. .. .. .. .. | 2,610 | 13 | 3 | .. | | |
| 1887-88 .. .. .. .. .. .. .. | .. | | | 569 | 14 | 1 |
| 1888-89 .. .. .. .. .. .. .. | 2,998 | 10 | 0 | .. | | |
| 1889-90 .. .. .. .. .. .. .. | .. | | | 164 | 12 | 9 |
| 1890-91 .. .. .. .. .. .. .. | 3,479 | 1 | 5 | .. | | |
| 1891-92 .. .. .. .. .. .. .. | 2,297 | 4 | 8 | .. | | |
| 1892-93 .. .. .. .. .. .. .. | 2,799 | 13 | 9 | .. | | |
| 1893-94 .. .. .. .. .. .. .. | * 3,091 | 3 | 9 | .. | | |
| 1894-95 .. .. .. .. .. .. .. | 3,110 | 13 | 5 | .. | | |
| 1895-96 .. .. .. .. .. .. .. | 2,880 | 0 | 0 | .. | | |
| Total .. | 24,338 | 7 | 0 | 734 | 10 | 10 |
| Net .. | 23,603 | 12 | 2 | .. | | |

* This differs from the figures returned in 1893-94. On verification it has been found that cost by country carts was taken to be As. 6-4 instead of As. 14-5 per mile.

## *Cuddapah District.*

*Capital Account*, 1894-95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1893-94 .. .. .. | | 12,341 | 9 | 0 | By depreciation at 6 per cent. .. .. | | 740 | 7 | 10 |
| | | | | | „ balance of stock .. .. .. | | 11,601 | 1 | 2 |
| Total .. | | 12,341 | 9 | 0 | Total .. | | 12,341 | 9 | 0 |

*Revenue Account*, 1894-95.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | | 197 | 14 | 5 | By received from contractor for trucking | | | | |
| „ road repairs .. .. .. .. | | 81 | 3 | 0 | out 1,178 tons of fuel .. .. .. | | 520 | 10 | 0 |
| „ depreciation .. .. .. .. | | 740 | 7 | 10 | By balance written off .. .. .. | | 992 | 9 | 10 |
| „ interest at 4 per cent. .. .. .. | | 493 | 10 | 7 | | | | | |
| Total .. | | 1,513 | 3 | 10 | Total .. | | 1,513 | 3 | 10 |

*Work done*—1,178 tons of fuel carried over $1\frac{1}{4}$ miles = $1,472\frac{1}{2}$ ton miles.

| | Rs. | A. | P. |
|---|---|---|---|
| *Actual charge of carrying*—$1,472\frac{1}{2}$ ton miles at Re. 1-0-5 = .. .. .. .. .. | 1,513 | 3 | 10 |
| *Estimated cost by carts*—$1,472\frac{1}{2}$ ton miles at Re. 1 = .. .. .. .. .. .. | 1,472 | 8 | 0 |

*Capital Account*, 1895-96.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To balance from 1894-95 .. .. .. | | 11,601 | 1 | 2 | By depreciation at 6 per cent. .. .. | | 696 | 1 | 0 |
| | | | | | „ balance of stock .. .. .. | | 10,905 | 0 | 2 |
| Total .. | | 11,601 | 1 | 2 | Total .. | | 11,601 | 1 | 2 |

*Revenue Account*, 1895-96.

| | Dr. | Rs. | A. | P. | | Cr. | Rs. | A. | P. |
|---|---|---|---|---|---|---|---|---|---|
| To working expenses .. .. .. | | 152 | 14 | 0 | By revenue from contractor for trucking | | | | |
| „ road repairs .. .. .. .. | | 50 | 12 | 6 | out 210 tons fuel .. .. .. | | 126 | 0 | 0 |
| „ depreciation .. .. .. .. | | 696 | 1 | 0 | By balance written off .. .. .. | | 1,278 | 4 | 2 |
| „ interest at 4 per cent. .. .. .. | | 464 | 0 | 8 | | | | | |
| „ Tramway repairs .. .. .. | | 40 | 8 | 0 | | | | | |
| Total .. | | 1,404 | 4 | 2 | Total .. | | 1,404 | 4 | 2 |

*Work done*—$756\frac{1}{2}$ * tons fuel carried over $1\frac{1}{2}$ miles = $\frac{3}{2} \times \frac{1513}{2} = \frac{4539}{4}$ or $1,134\frac{3}{4}$ ton miles.

| | Rs. | A. | P. |
|---|---|---|---|
| *Actual carrying charge of*—$1,134\frac{3}{4}$ ton miles at Rs. 1-3-10 = .. .. .. .. .. | 1,404 | 4 | 2 |
| *Estimated cost by carts*—$1,134\frac{3}{4}$ ton miles at Re. 1-0-0— .. .. .. .. .. | 1,134 | 12 | 0 |
| Loss .. | 269 | 8 | 2 |

* Of these $546\frac{1}{2}$ tons were trucked by the department.

| Year. | Abstract. | Profit. Rs. A. P. | Loss. Rs. A. P. |
|---|---|---|---|
| 1892–93 | .. .. .. .. .. .. .. .. | .. | 2,892 12 3 |
| 1893–94 | .. .. .. .. .. .. .. .. | .. | 539 8 9 |
| 1894–95 | .. .. .. .. .. .. .. .. | .. | 40 11 10 |
| 1895–96 | .. .. .. .. .. .. .. .. | .. | 269 8 2 |
| | | Total .. | 3,742 9 0 |

## *South Coimbatore District.*

*Capital Account*, 1894–95.

| *Dr.* | Rs. A. P. | *Cr.* | Rs. A. P. |
|---|---|---|---|
| To balance from 1893–94 .. .. .. | 52,897 1 8 | By depreciation at 6 per cent. .. .. | 3,197 5 6 |
| „ cost of painting the tramway trucks.. | 158 12 4 | „ balance of stock .. .. .. | 50,091 11 6 |
| „ repairs to plant .. .. .. .. | 233 3 0 | | |
| Total .. | 53,289 1 0 | Total .. | 53,289 1 0 |

*Revenue Account*, 1894–95.

| *Dr.* | Rs. A. P. | *Cr.* | Rs. A. P. |
|---|---|---|---|
| To working expenses .. .. .. | 4,321 3 1 | By balance written off .. .. .. | 9,721 15 7 |
| „ depreciation at 6 per cent. .. .. | 3,197 5 6 | | |
| „ interest at 4 per cent. .. .. .. | 2,131 9 0 | | |
| „ repairs to roadway .. .. .. | 71 14 0 | | |
| Total .. | 9,721 15 7 | Total .. | 9,721 15 7 |

*Work done*—1,627 tons (5,206$\frac{8}{25}$ candies or 65,079 cubic feet) of timber moved over four miles = 6,508 ton miles.

| | Rs. A. P. | Rs. A. P. |
|---|---|---|
| *Actual charges of carrying*—6,508 ton miles at Rs. 1-7-11 per ton mile = .. .. .. | | 9,721 15 7 |
| *Estimated cost by carts*—6,508 ton miles at Rs. 1-0-8 per ton mile = .. | 6,779 2 8 | |
| Annual cost of maintaining cart road before construction of tramway (now sanctioned) .. .. .. .. .. .. .. .. | 1,200 0 0 | |
| | | 7,979 2 8 |
| | Loss .. | 1,742 12 11 |

*Capital Account*, 1895–96.

| *Dr.* | Rs. A. P. | *Cr.* | Rs. A. P. |
|---|---|---|---|
| To balance from 1894–95 .. .. .. | 50,091 11 6 | By depreciation at 6 per cent. .. .. | 3,031 2 0 |
| „ extension of tram line up top slip .. | 16 0 0 | „ balance of stock .. .. .. | 47,487 9 9 |
| „ repairs to tram trucks .. .. .. | 195 2 0 | | |
| „ tarring the spare rails and sleepers .. | 64 6 9 | | |
| „ cost of 19 brakes to tram trucks .. | 151 7 6 | | |
| Total .. | 50,518 11 9 | Total .. | 50,518 11 9 |

*Revenue Account*, 1895–96.

| *Dr.* | Rs. A. P. | *Cr.* | Rs. A. P. |
|---|---|---|---|
| To working expenses .. .. .. | 4,768 4 1 | By balance written off .. .. .. | 9,923 11 1 |
| „ depreciation at 6 per cent. .. .. | 3,031 2 0 | | |
| „ interest at 4 per cent. .. .. .. | 2,020 12 0 | | |
| „ repairs to roadway .. .. .. | 103 9 0 | | |
| Total .. | 9,923 11 1 | Total .. | 9,923 11 1 |

*Work done*—1,797 tons (5,748$\frac{24}{25}$ candies or 71,862 cubic feet) of timber moved over 4 miles = 7,188 ton miles.

| | Rs. A. P. | Rs. A. P. |
|---|---|---|
| *Actual charges*—for carrying 7,188 ton miles at Rs. 1–6–1 per ton mile .. .. .. | | 9,923 11 1 |
| *Estimated cost by carts*—7,188 ton miles at Rs. 1–0–8 per ton mile (the rate actually paid for carting prior to the construction of the tramway) .. .. .. .. .. .. .. .. .. | 7,487 8 0 | |
| *Annual cost of maintaining cart-road*—before the construction of tramways | 1,200 0 0 | |
| | | 8,687 8 0 |
| | Loss .. | 1,236 3 1 |

1 candy=12½ cubic feet. 1 ton = 40 cubic feet.

| Year. | Abstract. | Profit. Rs. A. P. | Loss. Rs. A. P. |
|---|---|---|---|
| 1889–90 | .. .. .. .. .. .. .. .. | .. | 4,155 2 7 |
| 1890–91 | .. .. .. .. .. .. .. .. | .. | 3,048 9 5 |
| 1891–92 | .. .. .. .. .. .. .. .. | .. | 4,710 13 9 |
| 1892–93 | .. .. .. .. .. .. .. .. | .. | 4,718 4 5 |
| 1893–94 | .. .. .. .. .. .. .. .. | .. | 2,392 3 5 |
| 1894–95 | .. .. .. .. .. .. .. .. | .. | 1,742 12 11 |
| 1895–96 | .. .. .. .. .. .. .. .. | .. | 1,236 3 1 |
| | | Total .. | 22,004 1 7 |

GOVERNMENT OF MADRAS.

## REVENUE DEPARTMENT.

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READ—the following Proceedings of the Board of Revenue (Land Revenue), Forest No. 539, dated 1st December 1896:—

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*Resolution*—Forest No. 539, dated 1st December 1896.

The Board resolves to submit to Government the progress report of Forest Administration in the Madras Presidency for the year ending 30th June 1896.

2. As in the previous year the report has been prepared by Mr. Popert, the Senior Conservator of Forests, who is stationed at Madras and from whom the Board has also received the most valuable and cordial assistance in the disposal of current business throughout the year. The several chapters of the report have been arranged in the order prescribed by section 259 of the Revised Forest Code.

3. The Board regrets the delay in the submission of the report. It is due to the fact that the Code forms were newly introduced during the year and that their preparation has not, in several cases, been correctly understood in District Forest offices, so that much time was taken up in checking the returns in the Board's office and obtaining revised figures where necessary. The districts most to blame are Malabar (North) and Cuddapah.

(True Copy and Extract.)

(Signed) R. C. C. CARR,
Secretary.

To the Secretary to Government, Revenue Department,
with three copies of the Administration Report.

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ORDER—No. 370 Revenue, dated 21st May 1897.

Forest No. 81.

With its Proceedings read above, the Board of Revenue submits its report on the administration of the Forest Department for the year ending 30th June 1896.

2. The final copy of the report did not reach the Government office until the 16th of December, or a full month after the prescribed date and even this was incomplete, for the usual table of contents was not prefixed thereto; the omission should be remedied before bound volumes of the report are issued. The delay is ascribed to the time taken up in checking and revising the statistical returns received from district forest offices, inasmuch as the introduction during the year of the new forms prescribed in the Revised Forest Code led to the occurrence of an unusual number of mistakes. The explanation is accepted, but the Government must request the Board to arrange for the punctual submission of the report in future. This is particularly necessary, since if, as on the present occasion, the report is not received until the month of December is far advanced, its review in the Government office is delayed by the accumulation of arrears during the Christmas holidays. The report, which was again drawn up by the Senior Conservator, Mr. E. P. Popert, differs materially in arrangement from those submitted in previous years owing to the adoption of the division of subjects indicated in section 259 of the Revised Forest Code. The same reason accounts for the change in the form of this review.

3. EXTENSION AND CONSTITUTION OF STATE FORESTS—*Alteration of area.*—The subjoined statement compares the areas of reserved forests and reserved lands at the commencement and close of the year under report:—

| | Area on 1st July 1895. | Area added during 1895-96. | Area excluded during 1895-96. | Net increase or decrease. | Area on 30th June 1896. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Reserved forests .. .. .. .. | 11,466 | (*a*) 1,086 | (*c*) 164 | + 922 | 12,388 |
| Do. lands .. .. .. .. | 7,324 | (*b*) 550 | (*d*) 1,184 | — 634 | (*e*) 6,690 |
| Total .. | 18,790 | 1,636 | 1,348 | + 288 | 19,078 |

(*a*) Including an addition of 228 square miles due to rectification of area (227) and the rounding off of fractions (1).
(*b*) ,, an addition of 35 square miles due to the same causes as set forth in (*a*).
(*c*) ,, a reduction of 156 square miles due to the rectification of area and of 8 square miles disafforested.
(*d*) The details of reduction are as under:—
48 square miles due to rectification of areas.
81 do. excluded at settlement.
858 do. notified as reserved forests.
196 do. abandoned.
1 square mile rounding of fractions.
(*e*) Of this area, 1,957 square miles were lands declared reserved by Collectors and 4,733 square miles had actually been brought under the operations of Chapter II of the Act.

A noticeable feature in the figures is the large variation due to rectification of area which accounts for an addition of 227 square miles and an exclusion of 156 square miles in the case of reserved forests. These changes appear to have been largely due to the more accurate computation of areas from the maps prepared by the Survey of India party. The statement given in paragraph 2 of the report (Abstract B) shows the extent under control as amounting to 21·43 per cent. of the total area of Government lands and to 36·8 per cent. of the unoccupied portions thereof. These figures differ materially from those given in the report for the previous year, namely, 19·7 and 31·8 per cent., respectively. The increase in the percentage is, however, mostly fictitious, being almost entirely due to the correction of mistakes in the statistics given in the report for 1894–95. In paragraph 5 of the review thereof the Government noticed the apparent inaccuracy of the figures and commented upon the fact that statistics were reported not to be available in the case of 17,962 square miles or nearly 20 per cent. of the total area of Government lands, whereas in the previous year the extent for which details were not furnished was under 5,000 square miles. A further variation was noticed in the figures given in column 3 of the abstract, from which it appeared that the total area, excluding zamindari and whole inam villages, had risen from 86,380 to 95,104 square miles. The Settlement Department of the Board was requested to explain these discrepancies and has since reported that "the greater portion of increase noticed by Government in the area excluding zamindari and whole inam villages, and more than half the increase in the area for which returns are not available" were due to the erroneous inclusion in the report for 1894–95 of the area of minor inam lands in Government villages. A detailed explanation of the remaining differences was furnished, and it was pointed out that the "area for which no returns were available" consisted of (1) Agency tracts, (2) unsurveyed villages or portions of villages, and (3) differences between traverse areas and field survey areas. The exclusion of the second of these items (with reference to the concluding paragraph of the Board's Proceedings read in G.O., No. 2512, Revenue, dated 24th June 1895, in which district officers were instructed to include in their returns rough estimates of the unsurveyed areas), the collection of approximate information regarding a portion of the Agency tracts in Ganjám and Gódávari, and the rectification of the mistakes made in the previous report has now reduced the area for which returns are not available to 4,024 square miles. Abstract B in the report under review, though an improvement on the corresponding statement for the previous year, is, however, not free from defects. There are trifling unexplained variations in the figures shown in column 2 against the districts of Salem, Malabar and Madura; the heading of column 3 does not indicate the exclusion of minor inams in Government villages; and, by what is presumably a mistake in printing, foot-notes (*c*) to (*f*) appear to

relate merely to the district of Ganjám, whereas it should have been made clear that the explanations given therein apply to the figures shown against each district in columns 3 to 6.

4. Paragraph 4 of the report contains a statement showing approximately the area eventually to be declared reserved forest. This amounts to 19,853 square miles or 22·31 per cent. of the total area of Government lands and 38·28 per cent. of the unoccupied portion thereof. It is anticipated that 1,019 square miles still require to be brought under the Forest Act, and the remaining area—18,834 square miles—is either already reserved or under settlement or comes under the category of reserved lands. These figures do not tally with those given in Abstract A in which the area brought under the Forest Act on 30th June 1896 appears as 19,078 square miles. As the Board describes the statement in paragraph 4 as the *latest* estimate, the Government presumes that the difference of 244 square miles is due to disafforestation or abandonment taking effect subsequent to that date.

5. *Forest Settlement.*—The outturn of forest settlement work as gauged by the area notified as reserved with effect from dates falling within each of the past five years is shown below :—

| — | 1891–92. | 1892–93 (15 months). | 1893–94. | 1894–95. | 1895–96. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Outturn .. .. | 2,063 | 2,261 | 1,350 | 680 | 922 |

There was thus an apparent increase over the unusually low outturn of 1894–95, but closer examination shows that there was no real improvement, for the area in respect of which final notifications under section 16 of the Forest Act were actually issued during 1894–95 was 913 square miles, as compared with 808 square miles in the year under report. These figures are a better criterion of the results than those given in the foregoing statement, which includes increases due to mere rectification of area and excludes the extents finally notified in each year, as reserved with effect from some early date in the following year. The fall in the outturn as compared with that of 1894–95 is apparently to be ascribed to the absence of three of the four special settlement officers on leave or transfer during the last quarter of the year and to the slow progress made by revenue divisional officers entrusted with forest settlement work. As compared with the outturn in and prior to 1892–93 there has been a still more marked decline in the rate of progress which, as was explained in the last review, is due to the fact that the forest blocks settled in former years were large hill areas " comparatively free of rights and easy to settle ", whereas attention has now to be devoted to " smaller reserves situated in the neighbourhood of cultivated tracts and more or less encumbered with communal or private rights."

6. If the extent ultimately to be brought under control be taken at 19,853 square miles, the area in respect of which final notifications had yet to be issued at the close of the year 1895–96 was 7,154 square miles as shown below :—

| | SQ. MLS. |
|---|---|
| (i) Notified under section 4 ... ... ... ... ... ... | 4,422 |
| (ii) Reserved lands not brought under settlement ... ... ... | 1,957 |
| (iii) Further selections ... ... ... ... ... ... ... | 775 * |
| Total ... | 7,154 |

Of the 4,422 square miles forming item (i), 1,675 had been actually settled and the final reports relating thereto were either under the consideration of Government or the Board or under reference to the district officers; 732 square miles had been settled but not reported upon, and the balance—2,015 square miles—was pending with forest

* These figures differ from those given in paragraph 4 of the report, where the further selections are estimated at 1,019 square miles. This is due to the absence of details of the area shown in that paragraph as " brought under the Forest Act," and the consequent necessity of taking the particulars of items (i) and (ii) from paragraph 5. Item (iii) represents the balance.

settlement-officers in various stages of settlement. Adding to the last item the areas not yet notified under section 4, the total extent requiring actual settlement was 4,747 square miles. It has been recognized that revenue divisional officers cannot devote sufficient attention to this class of work and the Secretary of State has sanctioned the appointment of a fifth special settlement-officer, with special reference to this fact and to the desirability of expediting the completion of forest settlement operations. The rate of progress during the past year has, however, been so slow that the Government doubts whether it was not unduly sanguine in anticipating, in paragraph 6 of the last review, that the work of forest settlement would be brought to a close by the end of the year 1900. As the marginal figures show, there was a serious falling off in the area for which the forest settlement-officers submitted settlement reports and proclaimed final notifications. During the past three years, four special settlement-officers have submitted final settlement reports on an area of 2,841 square miles. At the same rate of progress with an additional officer, it should take four years to complete the actual settlement of the 4,747 square miles pending on 30th June 1896, but the scrutiny exercised in the Board's office, together with the frequent necessity of sending forest settlement papers back for revision, would no doubt postpone the issue of final notifications under section 16 of the Forest Act to a date considerably later than 30th June 1900. It is therefore most important that the rate of progress should be accelerated, if this is possible without detriment to the quality of the work, and the Board of Revenue will be requested to devote unremitting attention to the matter. The quarterly reviews of the outturn of forest settlement work furnish an excellent opportunity of scrutinizing the work of the special settlement-officers,—and of this the Board already avails itself. The slow progress is, however, often due to causes beyond the control of these officers; thus, there is not unfrequently avoidable delay on the part of the ordinary executive staff of the districts in replying to calls or references relating to settlement operations. The Board cannot too strongly impress upon Collectors and District Forest-officers the necessity of dealing promptly with such matters and of giving all the assistance in their power to special settlement officers employed within the limits of their districts.

| — | Area in respect of which | |
|---|---|---|
| | settlement reports were submitted. | final proclamations were issued. |
| | SQ. MLS. | SQ MLS. |
| 1893–94 .. .. .. .. | 938 | 742 |
| 1894–95 .. .. .. .. | 1,136 | 566 |
| 1895–96 .. .. .. .. | 767 | 325 |

7. Turning to the work of revenue divisional officers, the Government observes that as usual but little progress was made, and regrets to notice that one officer, who has since retired, is reported to have entirely neglected this branch of his duties. The total area disposed of by revenue officers was only 58 square miles against 140 in the previous year, but the decline in outturn was no doubt largely due to the transfer of forest blocks to the charge of special settlement-officers.

8. A satisfactory feature of the year's settlement work as compared with that of 1894–95 was the disposal of long pending blocks. The number of blocks still under settlement which had been notified under section 4 in and prior to 1889–90 was reduced from 107 to 76, and from paragraph 7 of the report it appears that a large proportion of the balance was approaching completion of settlement. The subject is, however, one to which the Board must continue to devote special attention. It is observed that Appendix A includes three blocks notified under section 4 in the year 1883–84, which were not shown in the corresponding returns for the previous year, and that numerous other alterations have been found necessary both in regard to the number and area of the blocks shown as notified in particular years. The explanation given in the foot-note—"rectification"—presumably means not merely the rectification of area, but also the correction of mistakes made in the previous returns. In two instances the area of the blocks shown as pending settlement has not been entered in the statement.

9. The Board does not discuss the adequacy of reservation, but the statement contained in paragraph 4 of the report furnishes approximate information as to the

proportion of unoccupied Government lands which will ultimately come under reservation, and paragraph 11 shows that selections for further reservation have been completed in most districts. The adequacy of the final proposals submitted by the Board has been considered in each individual case, and no material extension of forest areas beyond the limits for the time being approved is ever likely to become feasible. While however, satisfactory progress was made with new selections, the area (442 square miles) actually notified under section 4 of the Forest Act was particularly small. It is desirable that new selections should be brought under settlement with expedition, but, for the present, delay is of less moment in view of the fact that the forest settlement-officers have already quite enough work to occupy them for a considerable time to come. The preparation of initial notifications under section 4 should, however, not be delayed on this account.

10. *Demarcation.*—The following statement compares the outturn of demarcation work under its various heads during the past three years:—

| — | Preliminary. | | | Permanent. | | | Re-clearing of old lines. | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1893–94. | 1894–95. | 1895–96. | 1893–94. | 1894–95. | 1895–96. | 1893–94. | 1894–95. | 1895–96. |
| | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. |
| Northern Circle. | 1,474 | 896 | 664 | 404 | 499 | 855 | 152 | 270 | 597 |
| Central Circle .. | 1,423 | 1,527 | 543 | 1,584 | 1,542 | 1,117 | 815 | 991 | 3,912 |
| Southern Circle. | 585 | 798 | 272 | 367 | 230 | 217 | 740 | 171 | 193 |
| Total .. | 3,482 | 3,221 | 1,479 | 2,355 | 2,271 | 2,189 | 1,707 | 1,432 | 4,702 |
| | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. |
| Average cost per mile .. .. | 2 7 1 | 2 5 2 | 2 13 6 | 11 0 9 | 9 0 10 | 8 14 7 | 7 14 5 | 6 13 11 | 2 8 4 |

The marked fall in the amount of preliminary demarcation is accounted for by the satisfactory explanation that in most districts but little work of this description remains to be done. From the figures given in Form No. 46 at page lxv of the appendix, it would appear that demarcation generally is in an advanced state, for out of a total length of boundaries amounting approximately to 30,631 miles, it is reported that at the close of the year all but 3,767 miles either had been demarcated or required no artificial delimitation in consequence of the existence of well defined natural boundary marks. Paragraphs 15 and 16 of the report read with Form No. 46 contain sufficient explanation of the variations in the cost and amount of both preliminary and permanent demarcation as compared with the previous year, but the Board does not account for the large increase in the extent of old lines re-cleared, or for the striking fall in the cost of re-clearance. This should now be briefly explained.

11. *Survey.*—As the marginal statement shows, the work of the Survey of India Party was as satisfactory as in the preceding year, when the outturn reached the highest recorded figure and the cost per square mile was lower than it had ever been before. The total area topographically surveyed at the close of the year under report was 5,110 square miles, and now that a second party has been deputed to work in the Madras Presidency, an annual outturn of nearly 2,000 square miles may be expected, which, as the Board remarks, should bring the completion of forest surveys within a measurable distance.

| Year. | Topography completed. | Cost per square mile. |
|---|---|---|
| | SQ. MLS. | RS. |
| 1894–95 .. .. .. .. | 971 | 67 |
| 1895–96 .. .. .. .. | 964 | 66 |

A certain amount of work was also done by the departmental staff of temporary surveyors and draughtsmen; but, from the information contained in the report, no satisfactory comparison can be instituted between the work executed during the year under review and that carried out in previous years. Operations appear to have been particularly active in the Northern circle, where the progress made is described as satisfactory except in Bellary; no work of this nature appears, however, to have been taken on hand in Gódávari. In the Southern and Central Circles there was less

activity in this direction owing, no doubt, to the fact that the Survey of India Parties have already covered much of the ground and will shortly take up the survey of further areas.

Appendices D and E embody particulars regarding the steps taken to prepare and maintain the various classes of maps prescribed in section 81 of the Forest Code. The former statement, however, does not contain full information, owing to the failure of district officers to comply with the instructions laid down in paragraph 8 of the last review; the Government notes that the Board has called their attention to the matter and trusts that the next report will not give room for a similar comment. Appendix E, as in the previous year, is marred by unexplained discrepancies; thus the area for which final maps are said to have been prepared in North Coimbatore is shown as 17 square miles, whereas the entry in the return for 1894–95 is 859 square miles. The foot-notes to the appendix show that more than one Collector has failed to submit any information for incorporation in this appendix. The Government regrets to see that the explicit instructions given on the subject in the last review have been disregarded and must request the Board to intimate its disapproval to the officers concerned.

12. MANAGEMENT OF STATE FORESTS—*Working plans.*— As usual, the continuance of forest settlement operations and the inadequacy of establishments formed serious obstacles to progress in this branch of the administration; but the Government notes with satisfaction that the anticipation made in the report for 1894-95 has been realized. The information contained in paragraph 20 of the report now under review and in the statistical statement printed at page lxviii shows that a number of simple working plans were framed and introduced during the year, and that progress was made in the collection of data for the preparation of future plans. The provisions of schemes actually in working appear as a rule to have been strictly adhered to, while the results obtained were on the whole satisfactory.

13. *Communications and Buildings.*—The total charges incurred on the construction and repair of communications and buildings amounted to Rs. 72,083 or Rs. 2,670 more than in the previous year. It is not altogether satisfactory to notice a decline in the outlay on communications; but this was no doubt, to some extent, due to the fact that a general scheme for the development of forest roads was under consideration during the year. The Board has subsequently reported that it is advisable to defer the introduction of any such scheme, pending further advance in the preparation of working plans. In this opinion the Government has expressed its concurrence in view of the impossibility of determining the most suitable alignment for roads in a reserve, the method of managing which has not been decided. Where, however, a working plan has been drawn up, or a road running in a particular direction is clearly desirable, whether for the exploration or for the management of a forest, there is no reason to delay expenditure on communications, and, as was indicated in paragraph 13 of the last review, this should, as a rule, have preference over outlay on buildings.

The working of the several tramways is discussed in paragraph 25 of the report and shown in detail in the statement printed at page cl. The results of the year's working cannot be regarded as altogether satisfactory, except in the case of the casuarina plantation in Nellore, where, as usual, a substantial profit is reported to have been realized. But, even on this line, there was a fall in the outturn, notwithstanding the absence of the special reason assigned for the large decrease in the preceding year. On the Sríharikóta tramway in the same district there was similarly a continuance of the decline in outturn noticed in the previous report, which might apparently be checked by the purchase of additional fuel wagons; the line, however, was worked at a slight profit. The working of the Cuddapah tramway was characterized by a considerable decrease in the work done, coupled with an increase in the cost of carriage, and though that in South Coimbatore showed a slight improvement under each of these heads, both lines were worked at a loss during the year. The reported profits and losses in working are, however, entirely based upon the estimated cost of transport by country carts, and an erroneous calculation of this item is liable to vitiate the conclusions drawn. It was for this reason that in paragraph 13 of the last review the Government suggested the inclusion in the report of a brief note explaining the data on which such estimates are framed. The suggestion has not been given effect to in the report now under review, but the Government notes that the

Board has instructed the Collectors concerned to pay special attention to the matter in future reports.

14. *Breaches of Forest Law.*—The following statement compares the number and disposal of cases relating to forest offences during the past three years:—

| Years. | Number of cases for disposal. | | | Number of cases disposed of. | | | | Number of acquittals. | Percentage of cases compounded to cases disposed of. | Percentage of acquittals to case dealt with by the magistracy. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cases pending. | New cases. | Total. | Withdrawn. | Compounded. | Dealt with by magistracy. | Total. | | | |
| 1893-94 .. .. | 1,965 | 10,007 | 11,972 | 794 | 5,309 | 4,231 | 10,334 | 919 | 51·3 | 21·6 |
| 1894-95 .. .. | * 1,604 | 9,883 | 11,487 | 904 | 5,109 | 4,039 | 10,052 | 750 | 51·8 | 18·6 |
| 1895-96 .. .. | * 1,365 | 9,610 | 10,975 | 1,009 | 4,531 | 3,862 | 9,402 | 796 | 48·2 | 20·6 |

* In consequence of the correction of mistakes subsequently discovered, these figures do not tally with the closing balances shown in the previous year's report.

There was thus an unsatisfactory increase in acquittals, which was common to all three circles. The percentage of cases withdrawn advanced concurrently from 9 to 10·7—a rise which is satisfactory, in so far as it can be ascribed to the more thorough scrutiny by superior Forest-officers of the evidence forthcoming, and the reverse as being indicative of want of care on the part of the subordinates responsible for the preliminary investigation. The prosecution of "under-aged boys" in Tinnevelly would seem to show that sufficiently careful inquiries are not conducted in all districts before sanctioning prosecutions. As the Board is aware, the Government of India has recently laid stress on the advisability of devoting more care to the preparation of cases for prosecution and of refraining from prosecuting at all when the evidence seems insufficient. The results achieved in Vizagapatam go to show the possibility of effecting improvement by taking action in this direction, and the Government looks to the Board to see that District Forest-officers devote unremitting attention to the matter.

Turning to the various classes of forest offences, the Government notices a marked increase in cases of injury by fire, of which no fewer than 43 per cent. occurred in the single district of Madura, where the number of such cases rose from 9 to 41. The only other main head under which an increase occurred was illicit grazing; the districts in which the advance was most striking were Madura (+ 193), Cuddapah (+ 150), Salem (+ 96) and Kistna (+ 89). With reference to the explanation given in paragraph 28 of the report, the Board will be requested to state whether further provision cannot be made for goat-browsing in the Cuddapah district in accordance with the scheme approved in Board's Proceedings, No. 602, dated 11th October 1895.

The amount of compensation realized from the compounding of cases (Rs. 35,139) fell short of the abnormally high figure reached in the previous year (Rs. 44,618), the average amount per case declining from Rs. 8–12–0 to Rs. 7–7–6. With reference to paragraph 30 of the report, the Government observes that the Collector's report fully justified the Board's conclusion as to the necessity of restricting the illicit goat-grazing in the South Arcot district by imposing an enhanced pound fee. The special transit rules recently sanctioned for North Coimbatore should be efficacious in preventing the systematic theft of sandalwood alluded to in paragraph 31.

15. *Protection from fire.*—Taking the Presidency as a whole, the results of fire conservancy were very satisfactory, as the following table shows:—

| — | Area which it was attempted to protect from fire. | Percentage area successfully protected. | Average cost of protection per square mile. |
|---|---|---|---|
| | SQ. MLS. | | Rs. A P. |
| 1892-93 .. .. .. .. | 5,100 | 95 | 13 2 3 |
| 1893-94 .. .. .. .. | 5,044 | 94 | 9 2 5 |
| 1894-95 .. .. .. .. | 4,979 | 94 | 8 7 11 |
| 1895-96 .. .. .. .. | 5,594 | 94 | 7 8 10 |

As will be seen, the continuous decrease in the rate of expenditure does not appear to have affected the success of the operations conducted. The results achieved

were least favourable in North Malabar, where only 34 per cent. of the area conserved escaped fire, and in Kurnool, Kistna, Bellary and Vizagapatam, where the percentage burnt was 23, 15, 13 and 13, respectively. Special reasons for the comparative failure of fire conservancy in these districts are given in paragraph 33 of the report. The Government notes that the inadequacy of establishments was one factor leading to the exceptionally poor results in North Malabar.

16. *Grazing.*—Information relating to this branch of the administration is contained in paragraphs 34, 45 and 46, Appendix F and Form No. 52. The manner in which grazing is regulated is explained in paragraph 34, from which it appears that the leasing system is now confined to small areas situated in four districts. The Government notes that the desirability of making provision for goat-browsing is occupying the attention of Collectors and desires that the scheme * advocated by Mr. Popert may be given as extensive application as may be practicable. From the information contained in Appendix F, it would appear that goats have hitherto been almost entirely excluded from reserved forests and reserved lands. This is desirable if the interests of forestry alone be considered, but the Government looks to the Board to impress upon Forest-officers the paramount importance of administering the areas under their charge so as to conduce to the convenience of the ryot population. Goats are, no doubt, most destructive to forest growth, but they are really wanted by the people and in localities where the free grazing areas are inadequate, goat-browsing should, in the absence of very strong reasons to the contrary, be permitted within reasonable limits and subject to proper control. Appendix F should be totalled in future reports and should, if possible, contain more complete information; the return compares favourably with that appended to the previous report, but the particulars required for entry in columns 5 and 6 have not been supplied in the case of many districts.

* *Vide* Board's Proceedings, No. 602, dated 11th October 1895.

The grazing revenue of the year was the highest on record amounting to Rs. 3,40,496, or Rs. 12,203 more than in the preceding year. There has been a continuous advance in receipts since 1892–93 when the income derived from this source was little more than half the present figure. The increase is ascribed to more efficient control and improvement in the methods of collection. The fees charged are little more than nominal and the relatively small advance † in the number of cases of illicit grazing would seem to show that the improvement in revenue does not involve additional harassment to the agricultural population. Of the several districts, Kistna, as usual, contributed the largest amount of grazing revenue (Rs. 76,596), Cuddapah (Rs. 41,244), and Salem (Rs. 36,719) coming next. As compared with the previous year, there was a marked increase in the two districts last mentioned and Bellary, ascribed chiefly to improved supervision. The districts characterized by a material decrease were Kistna, North Arcot and North Coimbatore. The decrease in Kistna was due to special causes unconnected with the working of the parcellaire system, which has been attended with such success that the Board has been requested to report on the advisability of extending the system to other districts.

† | Year. | Grazing revenue. | Cases of illicit grazing.
---|---|---|---
| | Rs. |
1893-94 .. .. .. | | 2,66,891 | 3,655
1894-95 .. .. .. | | 3,28,293 | 3,654
1895-96 .. .. .. | | 3,40,496 | 3,829

17. *Improvement of Forest growth.*—From paragraph 35 of the report it appears that natural reproduction was generally satisfactory in the absence of damage due to forest fires or to uncontrolled grazing. The Government notes that a useful experiment has been inaugurated in the Cuddapah district for the purpose of estimating the comparative success of coppicing with and without protection from fire and goats. The area under regular plantations was 18,067 acres against 22,620 in the previous year, and the expenditure thereon rose from Rs. 33,298 to Rs. 34,070. It is satisfactory to notice that active steps were taken to promote the cultivation of dates and palmyras in the Ceded districts. Casuarina plantations were on the whole fairly successful, except in North Arcot, where for reasons which have not been ascertained,

the plants suddenly die off though progressing favourably at the outset. Much interesting information regarding the experimental cultivation of exotics is given in paragraph 38 of the report.

18. GROSS YIELD AND OUTTURN OF FOREST PRODUCE.—The following table exhibits particulars under this heading during the last five years :—

| —— | Timber including sandalwood. | Fuel. | Bamboos. | Minor produce (gross value). |
|---|---|---|---|---|
| | C. FT. | C. FT. | NO. | RS. |
| 1891-92 .. .. .. .. .. | 3,086,937 | 13,987,173 | 31,150,765 | 6,40,842 |
| 1892-93 (15 months) .. .. .. .. | 2,966,556 | 12,138,565 | 20,779,393 | 8,03,255 |
| 1893-94 .. .. .. .. .. .. | 3,072,496 | 12,184,996 | 25,304,261 | 7,89,661 |
| 1894-95 .. .. .. .. .. .. | 2,777,658 | 12,025,734 | 29,793,195 | 8,81,070 |
| 1895-96 .. .. .. .. .. .. | 2,907,046 | 13,739,385 | 33,725,819 | 10,79,886 |
| Increase or decrease in 1895-96 as against 1894-95. | + 129,388 | + 1,713,651 | + 3,932,634 | + 1,98,816 |
| Percentage of increase or decrease above mentioned. | + 4·6 | + 14·2 | + 13·2 | + 22·6 |

The increase in fuel and bamboos is satisfactory as showing that the wants of the public are being better supplied owing to forest operations. Paragraphs 49 to 52 of the report detail the extent and cost of departmental and private working. The cost of collection by departmental agency varied but little from the figures of the previous year, but the rate of profit was generally lower. Private working is gradually taking the place of departmental operations, but as pointed out in paragraphs 51 and 52, it is necessary to retain the latter agency in certain cases and as suggested by the Board, departmental working has this advantage over private working, that it can be more immediately directed to the supply of the ryot's wants and to the improvement of the forests than private working is likely to be, for profit is immaterial in the one but the main element in the other. The following table compares the relative profits derived under each system during the past two years :—

| —— | 1894-95. | 1895-96. |
|---|---|---|
| *Departmental working.* | RS. A. P. | RS. A. P. |
| Timber, per cubic foot .. .. .. .. .. | 0 3 9 | 0 2 7 |
| Fuel, do. .. .. .. .. .. | 0 0 2 | 0 0 1 |
| Bamboos, each .. .. .. .. .. | 0 0 9 | 0 0 5 |
| Sandalwood, per cubic foot .. .. .. .. | 8 6 7 | 3 13 10 |
| Minor produce, per maund .. .. .. .. | 0 0 8 | 0 5 1 |
| *Private working.* | | |
| Timber, per cubic foot .. .. .. .. .. | 0 1 1 | 0 1 4 |
| Fuel, do. .. .. .. .. .. | 0 0 4 | 0 0 5 |
| Bamboos, each .. .. .. .. .. | 0 0 1 | 0 0 1 |
| Grazing .. .. } Net profits .. .. { | 2,55,254 0 0 | 2,73,330 0 0 |
| Minor produce .. } | 4,09,672 0 0 | 5,74,740 0 0 |

From the particulars given in Forms 55 and 56 free grants of forest produce appear to have been given much more frequently than in the previous year. The Government trusts that this is an indication that District officers are making more liberal use of the powers given them by section 104 of the Forest Code.

19. FINANCIAL RESULTS.—The financial results of the year's working are compared with those of the two previous years in the following statement :—

| —— | Northern Circle. | | | Central Circle. | | |
|---|---|---|---|---|---|---|
| | 1893-94. | 1894-95. | 1895-96. | 1893-94. | 1894-95. | 1895-96. |
| | RS. | RS. | RS. | RS. | RS. | RS. |
| Receipts .. .. .. .. | 6,04,314 | 6,09,343 | 7,23,859 | 7,76,451 | 7,97,546 | 9,39,733 |
| Charges .. .. .. .. | 3,26,719 | 3,69,870 | 3,83,877 | 5,35,276 | 5,44,038 | 5,60,995 |
| Surplus or deficit .. | + 2,77,595 | + 2,39,473 | + 3,39,982 | + 2,41,175 | + 2,53,508 | + 3,78,738 |

| — | Southern Circle. | | | Total (all Circles). | | |
|---|---|---|---|---|---|---|
| | 1893-94. | 1894-95. | 1895-96. | 1893-94. | 1894-95. | 1895-96. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Receipts .. . .. .. | 5,62,950 | 5,70,293 | 5,04,038 | 19,43,715 | 19,77,182 | 21,67,630 |
| Charges .. .. .. .. | 5,06,416 | 5,40,390 | 5,24,116 | 13,68,411 | 14,54,298 | 14,68,988 |
| Surplus or deficit .. | + 56,534 | + 29,903 | — 20,078 | + 5,75,304 | + 5,22,884 | + 6,98,642 |

The revenue derived during the year under review was the highest on record and the surplus of receipts over expenditure was also larger than in any previous year. The causes of the variations in the figures for the past two years are concisely set forth in paragraph 55 of the report, which, however, does not explain how operations in the Southern Circle came to result in a deficit. The Board will now be requested to submit a special report with regard to this matter.

20. Forest Administration.—The concluding chapter of the report deals with the principal administrative changes introduced or under consideration during the year, of which the most important were the change in the system of crediting revenue from trees on unreserved lands, the extension of the powers of Conservators, the re-organization of the subordinate executive and clerical establishments, and the decision to make the bulk of the extensive Anaimalai forests available for planting purposes. Sanction has just been received for the re-organization of the subordinate executive staff, to which reference is made in paragraph 67 of the report, and the Government trusts that the improvement in the strength, pay and prospects of this portion of the establishment will materially enhance the efficiency of the administration and will do much towards removing those defects and short-comings, which in this and in previous reports have been justly ascribed to inadequacy of establishment and the slowness of promotion.

The statement contained in paragraph 63 of the report obviously fails to furnish full particulars regarding the districts visited by Conservators, but their touring and that of District Forest-officers appears as usual to have been adequate, and the Government is pleased to notice that the inspection of Range offices was carried out with exceptional thoroughness. The conduct of the subordinate staff, and especially that of the poorly-paid protective branch, left much room for improvement; the only way in which this can be effected is by close and unremitting supervision on the part of the superior officers and the infliction of exemplary punishments in all cases of proved corruption or oppression. The attention of the Board of Revenue has, in a separate order, been drawn to this matter.

Paragraph 58 deals briefly with the working of the general rules framed under section 26 of the Madras Forest Act and introduced in 1894, but the Government considers that it would be premature to draw any conclusions on the subject until it is in possession of the fuller information, which will presumably be embodied in the next report on the administration of the department.

In future reports the Board is requested to specifically consider in this portion of its report how far the working of the department during the year has furthered the main ends of forest administration, viz., the improvement of forest growth and the supply of forest produce to meet the wants of the people.

21. *Form of the report.*—The change in the arrangement of the report has already been referred to in paragraph 2 *supra*. It is in accordance with the provisions of the Revised Forest Code which have necessitated the inclusion of certain statements not furnished in previous years. The result is a material increase in the volume of the report, which is just double the length of that for the previous year. The letter-press is only seven pages longer and this increase is accounted for by the inclusion therein of information regarding natural and artificial reproduction, operations for the improvement of forest growth and experimental cultivation, which was formerly relegated to a separate appendix. The reason for the increase in the length of the report must therefore be sought for in the appendices, which appear to be unnecessarily voluminous. Thus, the first two pages of Appendix A might have been compressed into one, the whole statement appearing in one opening. Appendix F and Form 52, which relate to

the same matter, are separated by 83 pages, and such information as is required on the subject might with advantage be shown in one statement; Form 52, it is noted, is an addition. Forms 44-A and 44-B might be printed on one page instead of two. Form 44-C, which is an addition, covers no less than 35 pages, and it is questionable whether the detailed particulars given therein are of sufficient importance to warrant their inclusion in the annual administration report. The same remarks apply to Form 45, which takes up 18 pages, while Form 49 enters into unnecessary detail regarding the construction, maintenance and repair of communications and buildings, taking up 14 more pages than Appendix H in the previous report which, however, related only to new works and gave no details of the outlay incurred. The substitution of details for mere totals in the statement showing the area protected from fire (Form 51) extends that return from one to five pages, while the detailed lists of plantations and topes (Forms 53 and 54) occupy ten more pages than the summaries given in the previous report (Forms 60 and 61). The statistics regarding outturn (Forms 55 and 56) and departmental collections and sales (Form 57) also occupy considerable additional space, and the appendices have been further amplified by the inclusion of two returns (Forms 72-A and 72-B) which the Code, as revised, does not prescribe. A revision in the printing would materially shorten the receipt portion of Form 59, and Form 65 might be abbreviated by placing in parallel columns the figures relating to the capital and revenue accounts of the year under report and that preceding it, annas and pies being omitted if necessary in order to provide space.

The foregoing remarks indicate means of reducing the volume of the report; but before issuing definite orders on the subject, the Government desires to be placed in possession of the Board's views as to the nature of the omissions and the alterations in printing which can, with advantage, be directed. Such modifications will, no doubt, entail a revision of Part IV of the Revised Forest Code in certain respects, but this is immaterial. The serial order of the various appendices might also be improved so as to bring it more into harmony with the arrangement of the letter-press. The length of the present report is almost entirely the direct result of compliance with instructions contained in the Code, and in the criticisms which have just been made the Government does not, of course, desire to find fault with the manner in which the report has been drawn up. On the contrary, Mr. Popert is entitled to praise for the care with which it has been prepared.

22. *Conclusion.*—Satisfactory progress has been made in almost every branch of the administration, and the thanks of Government are due to the Board of Revenue and to the officers of the department for the excellent results achieved during the year.

(True Extract.)

(Signed) G. STOKES,
Ag. Secretary to Government.

# ANNUAL ADMINISTRATION REPORT

OF

# THE FOREST DEPARTMENT,

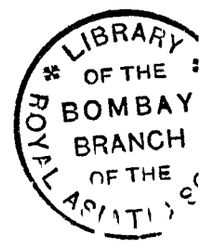
## MADRAS PRESIDENCY,

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1897.

(1896-97.)

HH-K-42

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1898.

# TABLE OF CONTENTS.

## Chapter I.—Extension and Constitution of State Forests.


| | PARA. | PAGE |
|---|---|---|
| i. Alteration of Area— | | |
| Areas— | | |
| Changes during the 12 months. | 1 | 1 & 2 |
| District Areas and Forest Reserves .. .. .. .. | 2 | 2 & 3 |
| Reserved Forests— | | |
| Area constituted during the 12 months .. .. .. | 3 | 4 |
| ii. Forest Settlements— | | |
| Progress in Settlement .. | 4–7 | 5–7 |
| Outturn of Work by Special Forest Settlement-officers .. | 8 | 8 & 9 |
| Outturn of other Settlement-officers (Divisional-officers) .. | 9 | 9 |
| Selections for further Reservation and Estimate of Area to be eventually declared Reserved Forests .. .. .. | 10 | 9 & 10 |
| Reserved Lands not brought under Settlement .. .. | 11 | 11 |
| Survey of proposed Reserves .. | 12 | 11 |
| Demarcation of do. .. | 13 | 11 & 12 |
| iii. Demarcation— | | |
| Lengths demarcated and cost of permanent demarcation .. | 14 | 12–14 |
| iv. Surveys— | | |
| Operations of the Survey of India Party .. .. | 15 | 14 & 15 |
| Departmental Surveys .. | 16 | 15 & 16 |
| Employment of Draughtsmen and the mapping of Reserved Forests .. .. .. | 17 | 16 |


## Chapter II.—Management of State Forests.


| | | |
|---|---|---|
| 1. Regulation of Management— | | |
| Working Plans and their control. | 18 | 16–18 |
| Annual Plans of Operations .. | 19 | 18 & 19 |
| 2. Working of the year— | | |
| (*a*) Communications and Buildings— | | |
| General .. .. | 20 | 19 |
| Expenditure on Roads .. | 21 | 19 & 20 |
| Do. on Buildings. | 22 | 20 |
| Tramways .. .. | 23 | 20 & 21 |
| (*b*) Protection of Forests from Injury— | | |
| General Protection and Breaches of Forest Law and rewards to informers and subordinates of the Forest and Abkári Departments .. .. | 24–26 | 21–27 |
| Protection from Fire .. | 27 & 28 | 28–29 |
| Regulation of Grazing and Protection from Cattle .. | 29 | 29 & 30 |
| (*c*) Improvement of Forest growth— | | |
| Natural Reproduction .. | 30 | 30–32 |
| Artificial Reproduction, Plantations and Cultural Operations .. .. | 31 | 32 & 33 |
| Early Thinnings, other Operations for the improvement of the Growing Stock .. .. | 32 | 33 |
| Experiments .. .. | 33 | 33–35 |
| (*d*) Exploitation of Major Forest Produce— | | |
| Clear or Regeneration Fellings .. .. | 34 | 35 |
| Selection Fellings .. | 35 | 36 |
| Improvement, Coppice, &c., Fellings .. | 36 | 36–38 |
| Unregulated Fellings .. | 37 | |
| (*e*) Extraction and Transport of Major Forest Produce .. | 38 | 38 |
| (*f*) Exploitation of Minor Forest Produce— | | |
| Extraction of Fodder .. | 39 | |
| Grazing .. .. | 40 | 38 & 39 |
| Miscellaneous Produce .. | 41 | 39 |


## Chapter III.—Gross Yield and Outturn of Forest Produce.


| | | |
|---|---|---|
| Yield— | | |
| General .. .. .. | 42 | 40 |
| Departmental Operations .. | 43 | 40–42 |
| Removals by purchasers .. | 44 | 43–44 |
| Comparative Cost of Departmental and Private Working .. | 45 | 44 |
| Confiscated Produce .. .. | 46 | 44–46 |
| Free grants of Forest Produce .. | 47 | |


## Chapter IV.—Financial Results.


| | | |
|---|---|---|
| Revenue and Expenditure .. .. .. .. .. .. .. | 48 | 46 & 47 |

## CHAPTER V.—FOREST ADMINISTRATION.


| Important Administrative Changes— | PARA. | PAGE. |
|---|---|---|
| Realization of Revenue from the Usufruct of Toddy yielding Trees in the Reserved Forests and Government Waste and Poramboke Lands .. .. .. | 49 | 47 |
| Modification in the system of grazing fees .. .. .. | 50 | |
| Working of the Department-Improvement of Forest growth and wants of the people .. | 51 | 47 & 48 |
| Rules under the Forest Act .. | 52 | 48 |
| Working of the Rules under Section 26 of the Forest Act .. | 53 | |
| Coffee Cultivation in Reserved Forests .. .. .. | 54 | |
| Tours of Forest Member .. | 55 | 49 |
| Conservators' Inspections .. | 56 | |
| Touring of District Forest officers. | 57 | |
| Inspection of Range offices by District Forest-officers .. .. | 58 | 49 |
| Audit of the Accounts of the District Forest offices .. .. | 59 | |
| Forest School .. .. .. | 60 | |
| Permanent Establishment .. | 61 | 49 & 50 |
| Conduct and Work of the Establishment .. .. .. | 62 | 50 |
| Health of the Establishment .. | 63 | |
| Service Books .. .. | 64 | 51 |
| Inventory of Valuable Stock .. | 65 | |
| Elephants .. .. .. | 66 | |
| Rain-gauges .. .. .. | 67 | |
| The Iron Industry in the Salem District .. .. .. | 68 | |
| Madgole Estate .. .. | 69 | |
| Work done by Superior officers .. | 70 | |


# APPENDICES.


| | PAGE |
|---|---|
| Area of Reserved Forests and Reserved Lands (No. 44) .. .. .. .. | ii |
| Progress made in, and expenditure incurred on, Forest Settlements (No. 45) .. | iii to xx |
| Appendix A—Forest Settlement .. .. .. .. .. .. .. | xxi to xxiii |
| Do. B—Causes of delay in the submission of final Notifications of Forest Reserves .. .. .. .. .. .. .. .. | xxiv |
| Do. C—Reserved Lands not under Settlement in square miles .. .. | xxv |
| Do. Demarcation and maintenance of boundaries (No. 46) .. .. | xxvi |
| Forest Areas Surveyed and under Survey (No. 47) .. .. .. .. .. | xxvii, xxviii |
| Appendix D—Abstract of District Reports in regard to the maintenance of Maps.. | xxix, xxx |
| Do. E—Statement showing the area of Forest Reserves for which final Maps have been prepared .. .. .. .. .. .. .. | xxxi |
| Progress made in Working Plans (No. 48) .. .. .. .. .. .. | xxxii |
| Communication and Buildings (No. 49) .. .. .. .. .. .. | xxxiii to xl |
| Statement showing the results of Transport of Wood by Tramways compared with the Transport by Carts (No. 65) .. .. .. .. .. .. .. | xli to xliv |
| Prosecution for Breaches of Forest Rules (No. 50) .. .. .. .. .. | xlv |
| Area of Forest Tracts protected from Fire (No. 51) .. .. .. .. .. | xlvi to xlviii |
| Areas open and closed to grazing (No. 52) .. .. .. .. .. .. | xlix |
| Area of Plantations (No. 53) .. .. .. .. .. .. .. .. | l, li |
| Annual List of Topes (No. 54) .. .. .. .. .. .. .. .. | lii |
| Statement showing the Outturn of Timber and Firewood and Agency of Exploitation (No. 55) .. .. .. .. .. .. .. .. .. .. .. | liii |
| Outturn of Minor Forest Produce (No. 56) .. .. .. .. .. .. | liv |
| Account of Timber, &c., in Depôts and sold locally ( No. 57) .. .. .. | lv, lvi |
| Abstract showing the value of Timber and other Produce at Depôts (No. 58) .. | lvii |
| Timber and other Produce cut and collected and removed by Consumers (No. 72 A, Old Code) .. .. .. .. .. .. .. .. .. .. .. | lviii |
| Timber and other Produce confiscated and sold (No. 72 B, Old Code) .. .. | lix |
| Summary of Revenue and Expenditure (No. 59) .. .. .. .. .. | lx to lxiv |
| Abstract of the above prepared in the Board's office .. .. .. .. .. | lxv, lxvi |
| Outstandings and Liabilities on account of Contractors and Disbursers (No. 60) .. | lxvii to lxix |
| Do. on account of Revenue (No. 61) .. .. .. .. .. .. | lxx to lxxii |
| Statement of Financial results (No. 62) .. .. .. .. .. .. .. | lxxiii |
| Abstract showing the value of Live-stock, Stores, Tools and Plant (No. 64) .. | lxxiv to lxxvii |
| Return of Elephants (No. 63) .. .. .. .. .. .. .. .. | lxxviii to lxxx |

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION IN THE MADRAS PRESIDENCY

## FOR THE TWELVE MONTHS ENDING WITH 30TH JUNE 1897.

## CHAPTER I—EXTENSION AND CONSTITUTION OF STATE FORESTS.

### (i) *Alteration of the Area.*

The alterations that have occurred during the year in the area of the State forests in each district are given in Form No. 44. These changes, together with the area of the reserved forests and reserved lands at the end of the year under report, compared with the figures at its commencement, are exhibited in the following abstract:—

ABSTRACT A.—Classes and areas of forests.

| — | Area on 1st July 1896. | Added during the year. | Excluded during the year. | Net increase or decrease. | Area on 30th June 1897. |
|---|---|---|---|---|---|
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Reserved forests .. .. .. .. .. | 4,135 | (a) 6<br>(b) 342 | (a) 18<br>(c) 20 | + 310 | 4,445 |
| Do. lands .. .. .. .. .. .. .. | 2,424 | (a) 25<br>(d) 101 | (a) 3<br>(c) 36<br>(e) 55<br>(f) 342 | — 310 | 2,114 |
| Total .. | 6,559 | 474 | 474 | .. | 6,559 |
| *Central Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 5,106 | (a) 11<br>(b) 271 | (a) 6<br>(c) 36 | + 240 | 5,346 |
| Do. lands .. .. .. .. .. .. .. | 1,776 | (d) 158 | (a) 10<br>(c) 126<br>(e) 14<br>(f) 271 | — 263 | 1,513 |
| Total .. | 6,882 | 440 | 463 | — 23 | 6,859 |
| *Southern Circle.* | | | | | |
| Reserved forests .. .. .. .. .. | 3,147 | (g) 1<br>(b) 232 | (a) 9<br>(c) 24 | + 200 | 3,347 |
| Do. lands .. .. .. .. .. .. .. | 2,490 | (a) 6<br>(d) 43 | (a) 81<br>(c) 80<br>(e) 4<br>(f) 232 | — 348 | 2,142 |
| Total .. | 5,637 | 282 | 430 | — 148 | 5,489 |
| *Total.* | | | | | |
| Reserved forests .. .. .. .. .. | 12,388 | (a) 17<br>(b) 845<br>(g) 1 | (a) 33<br>(c) 80 | + 750 | 13,138 |
| Do. lands .. .. .. .. .. | 6,690 | (a) 31<br>(d) 302 | (a) 94<br>(c) 242<br>(e) 73<br>(f) 845 | — 921 | 5,769 |
| Grand Total .. | 19,078 | 1,196 | 1,367 | — 171 | 18,907 |

(a) Rectification of area. (b) Transferred from reserved lands. (c) Disafforested or unreserved.
(d) Newly-constituted reserved lands. (e) Excluded at settlement. (f) Transferred to reserved forests.
(g) By rounding off fraction in previous year's return.

The net results show a decrease of 171 square miles in the total area brought under reservation against an increase of 288 square miles during 1895–96. The decrease is attributable to a great extent to the new forest policy to which complete effect was given during the year, and partly to forest settlement operations and rectification of areas by correct computation. Having regard to individual districts there was an increase during the year in the districts of *Kurnool* in the *Northern Circle*, *Cuddapah*, *Nellore*, *North Arcot* and *Trichinopoly* in the *Central Circle*, and *South Canara* in the *Southern Circle*, where large areas were notified under section 4 of the Forest Act. A considerable portion of the extent which remained as reserved lands under the rules under section 26 at the end of 1895–96 in Kistna, North Coimbatore and South Canara was also notified under section 4 during the year. The increase to the area of reserved forests occurred mainly in the districts of *Vizagapatam*, *Gódávari* and *Kurnool* in the *Northern Circle*, *Cuddapah*, *Nellore* and *South Arcot* in the *Central Circle* and *North Coimbatore* in the *Southern Circle*. The area of 94 square miles of reserved land shown as "excluded by rectification" is principally due to the erroneous inclusion in the previous years of 80 square miles of enclosures in the Guttialattur reserve in the North Coimbatore division specially excluded from settlement in the notification under section 4. In the report for the last year, it was stated that the Survey of India Party omitted to exclude the extent of enclosures in calculating the areas of blocks mapped by that party in the *Salem* district and that the subject was receiving the Collector's attention. No appreciable progress was made in this direction during the year as the Range officers were fully engaged in other important works and the services of a surveyor were not secured until the close of the year.

2. The percentage of the area brought under the Forest Act in each district to district area and to unoccupied lands is shown in the following statement:—

## Abstract B.—District areas and forest reserves.

| District. | Total district area excluding feudatory and tributary states. | Area excluding zemindari and whole inam villages. | Occupied area. | Particulars of remaining area (column 3—column 4). | | | Reserved forests and reserved lands. | | | Percentage of column 10 to column 3. | Percentage of column 10 to column 7. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Unoccupied, culturable, uncultivable and forest areas. | Area for which returns are not available. | Total of columns 5 and 6. | Reserved forests under Act V of 1882. | Reserved lands. | Total of reserves, columns 8 and 9. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | | |
| *Northern Circle.* | | | | | | | | | | | |
| Ganjám | 8,369 | 4,437 | 599 | 1,154 | 2,684 | 3,838 | 146 | 410 | 556 | 12·53 | 14·48 |
| Vizagapatam | 17,242 | 1,377 | 261 | 575 | 541 | 1,116 | 136 | 279 | 415 | 30·13 | 37·18 |
| Gódávari | 7,857 | 3,888 | 1,544 | 1,861 | 483 | 2,344 | 810 | 143 | 953 | 24·51 | 40·65 |
| Kistna | (a) 8,498 | 5,616 | 3,157 | 2,350 | (a) 109 | 2,459 | 654 | 510 | 1,164 | 20·72 | 47·33 |
| Kurnool | 7,514 | † 6,799 | 2,030 | 4,769 | .. | 4,769 | 1,806 | 525 | 2,331 | 34·28 | 48·87 |
| Bellary | * 5,717 | 4,621 | 2,658 | 1,963 | .. | 1,963 | 456 | 170 | 626 | 13·54 | 31·88 |
| Anantapur | 5,461 | 4,569 | 2,166 | 2,284 | 119 | 2,403 | 437 | 77 | 514 | 11·24 | 21·38 |
| Total .. | 60,658 | 31,307 | 12,415 | 14,956 | 3,936 | 18,892 | 4,445 | 2,114 | 6,559 | 20·95 | 34·71 |
| *Central Circle.* | | | | | | | | | | | |
| Cuddapah | 8,723 | † 7,567 | 2,148 | 5,419 | | 5,419 | 1,576 | 784 | 2,360 | 31·18 | 43·55 |
| Nellore | 8,765 | 4,072 | 1,746 | (c) 2,113 | (c) 213 | 2,326 | 537 | 146 | 683 | 16·77 | 29·36 |
| Chingleput | 3,092 | 2,049 | 1,017 | 1,028 | 9 | 1,032 | 203 | 10 | 213 | 10·39 | 20·63 |
| North Arcot | 7,365 | 3,905 | 1,382 | 2,517 | 6 | 2,523 | 1,021 | 113 | 1,134 | 29·08 | 44·94 |
| South Arcot | 5,216 | 4,969 | 2,431 | 2,465 | 73 | 2,538 | 573 | 142 | 715 | 14·38 | 28·17 |
| Salem | 7,529 | 5,390 | 2,136 | 3,254 | .. | 3,254 | 1,229 | 210 | 1,439 | 26·69 | 44·22 |
| Trichinopoly | 3,631 | 2,686 | 1,668 | 1,005 | 13 | 1,018 | 189 | 108 | 297 | 11·05 | 29·17 |
| Tanjore | 3,706 | (d) 2,487 | 1,780 | 691 | (d) 16 | 707 | 18 | .. | 18 | 0·72 | 2·54 |
| Total .. | 48,027 | 33,125 | 14,308 | 18,487 | 330 | 18,817 | 5,346 | 1,513 | 6,859 | 20·70 | 36·45 |
| *Southern Circle.* | | | | | | | | | | | |
| South Canara | 3,902 | 3,883 | 673 | 3,210 | .. | 3,210 | 114 | 995 | 1,109 | 28·56 | 34·54 |
| Malabar | 5,593 | † 5,565 | 1,596 | 3,969 | .. | 3,969 | 196 | 406 | 602 | 10·81 | 15·16 |
| The Nilgiris | 957 | † 957 | 312 | 645 | .. | 645 | 358 | 92 | 450 | 47·02 | 69·76 |
| Coimbatore | 7,860 | † (f) 7,330 | 3,837 | (f) 3,493 | .. | 3,493 | 1,707 | 573 | 2,280 | 31·10 | 65·27 |
| Madura | 8,813 | † 3,241 | 1,684 | 1,557 | .. | 1,557 | 562 | 59 | 621 | * 19·16 | 39·88 |
| Tinnevelly | 5,389 | 3,567 | 2,299 | 1,260 | 8 | 1,268 | 410 | 17 | 427 | 11·97 | 33·67 |
| Total .. | 32,514 | 24,543 | 10,401 | 14,134 | 8 | 14,142 | 3,347 | 2,142 | 5,489 | 22·36 | 38·81 |
| Grand Total .. | 141,199 | 88,975 | 37,124 | 47,577 | 4,274 | 51,851 | 13,138 | 5,769 | 18,907 | 21·24 | 36·46 |

(a) Increase is due to adoption of revised survey areas furnished by the Survey Department.
(c) The difference is due to large decrease in the area by village papers. The Collector has not explained the decrease.
(d) The figure in column 3 represent the survey area, that in column 6 the difference between survey area and area by village papers.
(f) Decrease is due to decrease in the unsurveyed forest area. The Collector will be asked to explain the difference.
* Collector has been asked to explain the variation as compared with the previous year.
† (1) Area by village papers is entered as it is in excess of the survey area.
(2) The figures in column 3 are exclusive of the area of minor inams in Government villages.

The percentage of area to unoccupied lands has slightly fallen from 36·8 to 36·4 during the year.

3. The area of finally constituted reserved forests in each district is shown in the subjoined statement:—

ABSTRACT C.

| Districts. | Prior to 1895–96. | During 1895–96. | During 1896–97. | Total. |
|---|---|---|---|---|
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Ganjám | 136 | (c) — 3 | 21, (c) — 8 | 146 |
| Vizagapatam | 58 | 29 | 49 | 136 |
| Gódávari | 521 | 113 | 176 | 810 |
| Kistna | 643 | 10, (a) — 12 | 27, (a) — 11, (c) — 3 | 654 |
| Kurnool | 1,737 | 11 | 58 | 1,806 |
| Bellary | 360 | 89, (a) 3 | 11, (a) — 1, (c) — 6 | 456 |
| Anantapur | 380 | 60 | (c) — 3 | 437 |
| Total .. | 3,835 | 300 | 310 | 4,445 |
| *Central Circle.* | | | | |
| Cuddapah | 1,250 | 285 | 45, (c) — 4 | 1,576 |
| Nellore | 417 | 19 | 112, (c) — 11 | 537 |
| Chingleput | 197 | 3 | 3 | 203 |
| North Arcot | 966 | 32, (c) — 3 | 26 | 1,021 |
| South Arcot | 464 | 86, (a) — 45 | 84, (c) — 16 | 573 |
| Salem | 1,089 | 97, (a) — 39, (c) — 1 | (a) 6, (c) — 1 | 1,229 |
| Trichinopoly | 192 | .. | (c) — 3 | 189 |
| Tanjore | 19 | .. | (c) — 1 | 18 |
| Total .. | 4,594 | 512 | 240 | 5,346 |
| *Southern Circle.* | | | | |
| South Canara | 114 | .. | .. | 114 |
| North Malabar | 151 | 7, (c) — 1 | .. | 157 |
| South Malabar | 39 | .. | .. | 39 |
| The Nilgiris | 355 | 2 | 1 | 358 |
| North Coimbatore | 859 | .. | 203, (a) — 1, (c) — 8 | 1,053 |
| South Coimbatore | 566 | (a) 85 | 2, (b) 1 | 654 |
| Madura | 542 | 17 | 23, (a) — 8, (c) — 12 | 562 |
| Tinnevelly | 411 | .. | 3, (c) — 4 | 410 |
| Total .. | 3,037 | 110 | 200 | 3,347 |
| Grand Total .. | 11,466 | 922 | 750 | 13,138 |

(a) Rectification of area. (b) Rounding off fractions in previous year's returns. (c) Declared unreserved.

The largest addition was in *North Coimbatore*. *Gódávari* and *Nellore* come next the major portion of the area in these two districts relates to three blocks which were notified during the preceding year, the reservation of which took effect only during the year under report. In *South Arcot*, which ranks next, the outturn was actually much larger than that shown above, as the reservation of four blocks of 80 square miles which were notified during the year takes effect only from dates falling within the current year. The only other districts in which there were noticeable additions were *Vizagapatam*, *Kurnool* and *Cuddapah*. The sanction of the Government of India for the abandonment of small reserves ordered to be given up under the new forest policy was received for all districts except *Chingleput* and notified during the year. The sanction for the exclusion of the blocks in the Chingleput district has since been received. As a result, 172 blocks of 80 square miles were removed from the list of the finally constituted reserved forests during the year.

## (ii) *Forest Settlements.*

4. The progress of forest settlement is exhibited in the following abstract :—

ABSTRACT D.

| Circle. | Area of reserved lands—*vide* Abstract A above. | | | | | Area brought under Chapter II of the Madras Forest Act. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | On 1st July 1896. | Added during 1896-97. | Total. | Excluded during the year mainly by reason of constitution as reserved forests. | Balance at the end of the year. | Area notified under section 4, not constituted reserved forests on 1st July 1896. | Added during 1896-97. | Total. | Constituted reserved forest during 1896-97, or otherwise disposed of. | Balance notified under section 4 but not constituted reserved forest on 1st July 1897. |
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Northern Circle | 2,424 | 126 | 2,550 | 436 | 2,114 | 1,601<br>(*d*) + 1 | 161<br>(*a*) + 13 | 1,776 | 342<br>(*a*) 2<br>(*b*) 4<br>(*c*) 55 | 1,372 |
| Central „ | 1,776 | 158 | 1,934 | 421 | 1,513 | 1,430 | 186 | 1,616 | 271<br>(*a*) 9<br>(*b*) 78<br>(*c*) 14 | 1,244 |
| Southern „ | 2,490 | 49 | 2,539 | 397 | 2,142 | 1,702<br>(*d*) + 1 | 55<br>(*a*) + 4 | 1,762 | 232<br>(*a*) 80<br>(*b*) 33<br>(*c*) 4 | 1,413 |
| Total .. | 6,690 | 333 | 7,023 | 1,254 | 5,769 | 4,733<br>(*d*) + 2 | 419 | 5,772 | 1,124 | 4,030 |

(*a*) Rectification of area. (*b*) Initial notifications cancelled.
(*c*) Excluded at settlement. (*d*) By rounding off fractions.

5. The statement in Appendix A shows, districtwar, the total area brought under settlement up to the end of the year, the area constituted reserved forests and the particulars of the balance under settlement on 30th June 1897. The subjoined table compares the number of blocks notified under sections 4 and 16 during the year under report and that of the previous year :—

| | 1895-96. | | 1896-97. | |
|---|---|---|---|---|
| | Number of blocks. | Area. | Number of blocks. | Area. |
| | | SQ. MLS. | | SQ. MLS. |
| (1) Areas notified as proposed reserves under section 4 and remaining to be constituted reserved forests at the beginning of the year .. .. .. .. .. .. .. .. | 736 | 5,313 | 541<br>(*a*) 1 | 4,733<br>(*a*) 17<br>(*d*) + 2 |
| (2) Notified under section 4 during the year .. .. .. | 79<br>(*a*) 7 | 442<br>(*a*) 17 | 175 | 402 |
| Total .. | 822 | 5,772 | 717 | 5,154 |
| (3) Deduct area finally constitued as reserved forest under section 16, excluded at settlement or cancelled, &c. | 185<br>(*b*) 96 | 858<br>(*a*) 29<br>(*b*) 71<br>(*c*) 81 | 136<br>(*b*) 81 | 845<br>(*a*) 91<br>(*b*) 115<br>(*c*) 73 |
| | 281 | 1,039 | 217 | 1,124 |
| (4) Area which remained to be finally constitued at the end of the year | 541 | 4,733 | 500 | 4,030 |

(*a*) By rectification. (*b*) Initial notifications cancelled.
(*c*) Excluded at settlement. (*d*) By rounding off fractions.

One hundred and seventy-five blocks covering an area of 402 square miles were notified under section 4 against 79 blocks with an extent of 442 square miles in the previous year. The blocks notified in *Kistna*, *Vizagapatam*, *Nellore*, *Trichinopoly*,

*Cuddapah* and *Tinnevelly* were principally extensions to existing reserved forests; these being naturally small and numerous, explain the decrease in the area and the increase in the number notified. The cancellation of the initial notifications of the blocks, which were ordered to be abandoned in consequence of the change in the forest policy but which awaited publication in the gazette at the end of the previous year, was effected during the year under report, and as a result, 79 blocks with an area of 88 square miles were struck off the lists of blocks pending settlement with Forest Settlement-officers. In South Canara two blocks covering an area of 27 square miles were also cancelled during the year with a view to their being re-notified. One hundred and thirty-six blocks with an extent of 845 square miles were finally constituted reserved forests during the year against 185 blocks of 858 square miles in the previous year.

The particulars of the balance of the area under settlement shown under item (4) above are as follow:—

| | 1895–96. | | 1896–97. | |
|---|---|---|---|---|
| | Number of blocks. | Area. | Number of blocks. | Area. |
| | | SQ. MLS. | | SQ. MLS. |
| (1) Notified under section 16 but not constituted reserved forest during the year .. .. .. .. .. .. .. | * 21 | * 311 | * 23 | * 122 |
| (2) With Board or Government awaiting publication of notification under section 16 .. .. .. .. .. .. | 117 | 855 | 92 | 662 |
| (3) Returned by Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer. | 70 | 820 | 28 | 669 |
| Total settled and reported on .. | 208 | 1,986 | 143 | 1,453 |
| (4) Settled but not reported on .. .. .. .. .. .. | 97 | 732 | 72 | 970 |
| (5) Settlement proceeding .. .. .. .. .. .. .. | 236 | 2,015 | 285 | 1,607 |
| Total of (4) and (5) .. | 333 | 2,747 | 357 | 2,577 |
| Total of (1), (2), (3), (4) and (5) .. | 541 | 4,733 | 500 | 4,030 |

* Includes four blocks of eleven square miles notified during 1895–96, the reservation of which takes effect only during 1897–98.

6. A statement showing the causes of the pendency of the blocks not yet constituted reserved forests is given in Appendix B.

Of the 72 blocks comprising 970 square miles shown as settled but not reported on—

21 were awaiting preparation of maps.
10 do. disposal of appeals.
8 do. expiry of time prescribed for appeals.
7 do. payment of compensation or exchange of lands.
9 do. replies to references made to Collector or Board.
17 were pending owing to other causes.

7. Two hundred and eighty-five blocks with an aggregate area of 1,607 square miles were pending with Forest Settlement-officers in various stages of settlement. The following statement compares the results of the present with those of the previous year:—

| Date. | Finally notified during the year ending with | | Settled and reported on. | | Under settlement. | | Total yet to be reported. | |
|---|---|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| 30th June 1896 .. | 185 | 858 | 208 | 1,986 | 333 | 2,747 | 541 | 4,733 |
| 30th June 1897 .. | 136 | * 845 | 143<br>* — 4 | 1,453<br>— 11 | 357 | 2,577 | 500 | 4,030 |

* Blocks notified during 1895–96 in South Canara but taking effect only during 1897–98.

As will be seen from columns 2—5 of the statement, the year's operations fell short of those of the previous year by 118 blocks of 557 square miles. Progress was somewhat retarded by the introduction of new officers for settlement work and by the transfer of settlement records among the several officers concerned.

No material progress was made in the disposal of the blocks of more than ten years' standing in *Ganjám*. Twenty of them remained at the close of the year and the delay in completing their settlement was due to the causes reported last year. It may be noted that besides the five blocks notified, the settlement reports of eight others were pending with the Board. Four of these have since been returned for further revision. In *Vizagapatam*, the Sinnivaram block, which was pending with the Government at the close of the previous year, was gazetted as reserved forest. Excepting the eleven small additions of an aggregate area of 2 square miles notified under section 4 during the year in the name of Mr. R. H. L. Lushington, Special Forest Settlement-officer, the settlement work of the reserves originally entrusted to Divisional officers was almost completed in 1895–96. The final notifications have not been published pending decision as to the advisability of the acquisition of certain enclosures and village-sites and the provision of other areas for hill villagers. It is noted that this question has received the full attention of the Conservator during his recent inspection of the forests of the district. In the *Gódávari* district seven blocks have been pending for the last seven years, and the submission of final reports therefor awaited survey and mapping which had to be done under the personal supervision of the District Forest-officer and Forest Settlement-officer. The progress in *Kistna*, *Kurnool*, *Bellary*, *Cuddapah*, *Nellore*, *North Arcot*, *South Arcot* and *Madura* was satisfactory. The settlement records of the Palkonda and Wongimilla proposed reserves in the *Cuddapah* district of fourteen and eleven years' standing, which were returned to the Collector during the previous year, were resubmitted to the Board in March last; the publication of the notifications is delayed as the maps have been returned to the Forest Settlement-officer in connection with settlement of extensions to these reserves. The only two old blocks in *Nellore* are the Srîharikóta, major and minor. The latter was notified under section 16 in two portions, the reservation of one taking effect during the year under report and of the other during the current year. The records of "major" block, which were under scrutiny in the Board's office at the close of the preceding year, were returned to the Collector for further revision, and have not been resubmitted. Little work was done in *Bellary*, *Anantapur* and *Trichinopoly* by the Special Forest Settlement-officers as they were engaged in other districts. In *South Canara* four blocks were notified, but the reservation of these and of four others notified last year was not given effect to during the year, owing to delay in publishing in time the necessary proclamation notices under section 16. The settlement of other blocks was also completed, but the preparation of the final reports has been postponed to the rainy season and the work of perambulation which was in arrears has been undertaken in the interval. Thirty-four of the sixty-one blocks pending in the district were perambulated during the year. The outturn in *South Canara* must be considered satisfactory considering the nature of the country travelled over. In *Salem* it had been decided that in the greater part of the district further reservation was unadvisable. This was prior to the issue of the orders that lands to meet all agricultural requirements should be reserved. To avoid unnecessary reservation and to meet the still later orders prescribing liberal provision of unreserved grazing areas a joint report was obtained from the Collector and Conservator during the year and pending its consideration settlement operations were suspended. Final orders have since been passed. Nine blocks under settlement have been abandoned and the cancellation of the initial notification of others awaited publication in the gazette. In *North Malabar*, the complicated case of Bavothi Haji's claim to portions of Peria and Kanoth, two of the long standing blocks is, notwithstanding the years of litigation and negotiation, still far from settled. Settlement operations in the Padri block were completed during the year, but the final notification is pending consideration of a proposal of the District Forest-officer to abandon the block on the ground that it is very much cut up by enclosures. In *South Malabar* the Forest Settlement-officer has been directed to suspend further proceedings in regard to the settlement of all the leased forests as the High Court had decided that all the provisions of chapter II of the Forest Act could not be applied in respect of these lands.

8. *Outturn of work by the Special Forest Settlement-officers.*—The following statement shows the work done by the Special Forest Settlement-officers :—

ABSTRACT E.—Outturn of work by Special Forest Settlement-officers during 1896–97.

| Name of Special Forest Settlement-officers. | Districts. | Issue of proclamation after notification under section 4. | | Settlement of claims. | | Report after settlement submitted. | | Final notification proclaimed. | | Cost. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Number of blocks. | Area. | Number of blocks concerned. | Area. | Number of blocks. | Area. | Number of blocks. | Area. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | | SQ. M. | | SQ. M. | | SQ. M. | | SQ. M. | RS. |
| Messrs. R. H. L. Lushington and H. S. Mullins. | Ganjám .. .. | 2 | 27 | 23 | 388 | † 11 | 122 | 4 | 14 | 5,726 |
| Mr. R. H. L. Lushington. | Vizagapatam .. | .. | .. | 11 | 2 | .. | .. | .. | .. | 1,909 |
| Messrs. R. H. L. Lushington and E. A. Smith. | Gódávari .. .. | .. | .. | 6 | 104 | .. | .. | 2 | 15 | 5,726 |
| Mr. R. H. L. Lushington. | Kurnool .. .. | .. | .. | 3 | 117 | .. | .. | .. | .. | 1,909 |
| | Total .. | 2 | 27 | 43 | 611 | 11 | 122 | 6 | 29 | 15,270 |
| Mr. E. A. Smith .. .. | Kistna .. .. | 24 | 60 | 24 | 92 | 23 | 92 | 11 | 17 | 4,421 |
| | Kurnool .. .. | 5 | 151 | 10 | 83 | 14 | 162 | 7 | 57 | 2,275 |
| | Bellary .. .. | 8 | 16 | .. | .. | .. | .. | 2 | 11 | 153 |
| | Anantapur .. .. | .. | .. | 2 | 13 | 3 | 15 | .. | .. | 600 |
| | Nellore .. .. | 10 | 26 | 11 | 30 | 10 | 19 | 12 | 110 | 4,661 |
| | Total .. | 47 | 253 | 47 | 218 | 50 | 288 | 32 | 195 | 12,110 |
| M.R.Ry. K. Ganapayya Garu. | Cuddapah .. .. | 7 | 31 | 6 | 46 | 6 | 51 | 8 | 56 | 2,501 |
| | North Arcot .. .. | 7 | 36 | 4 | 12 | 2 | 4 | 4 | 15 | 2,501 |
| | Salem .. .. | .. | .. | 1 | 4 | 1 | 4 | .. | .. | 2,501 |
| | South Arcot .. .. | 6 | 4 | .. | .. | .. | .. | 1 | 1 | 104 |
| | Chingleput .. .. | 9 | 3 | 2 | 1 | 3 | 2 | 1 | 2 | 2,502 |
| | Total .. | 29 | 74 | 13 | 63 | 12 | 61 | 14 | 74 | 10,109 |
| M.R.Ry. C. Raju Sastriar Avergal. | South Arcot .. | .. | .. | .. | .. | .. | .. | 1 | .. | |
| | Madura .. .. | .. | .. | .. | .. | .. | .. | 1 | 1 | |
| | Total .. | .. | .. | .. | .. | .. | .. | 2 | 1 | |
| M.R.Ry. P. S. Singaravelu Pillai Avergal. | South Arcot .. .. | .. | .. | 14 | 32 | 13 | 23 | 6 | * 85 | 10,908 |
| | Trichinopoly .. | 46 | 79 | .. | .. | .. | .. | .. | .. | |
| | Tanjore .. .. | 1 | .. | 1 | .. | .. | .. | .. | .. | |
| | Madura .. .. | .. | .. | 2 | 20 | 3 | 7 | 8 | 14 | |
| | Coimbatore .. .. | 7 | 54 | 3 | 5 | .. | .. | 5 | 204 | |
| | Tinnevelly .. .. | .. | .. | 3 | 7 | 1 | 1 | 9 | 4 | |
| | Total .. | 54 | 133 | 23 | 64 | 17 | 31 | 28 | 307 | |
| Mr. F. V. P. Gompertz .. | South Arcot .. | .. | .. | .. | .. | .. | .. | 3 | .. | |
| | Tanjore .. .. | .. | .. | .. | .. | ‡ 1 | .. | .. | .. | |
| | Madura .. .. | .. | .. | .. | .. | .. | .. | 1 | 2 | |
| | Coimbatore .. .. | .. | .. | .. | .. | ‡ 1 | 2 | 1 | 1 | |
| | Tinnevelly .. .. | 2 | .. | .. | .. | ‡ 2 | 3 | .. | .. | |
| | Total .. | 2 | .. | .. | .. | 4 | 5 | 5 | 3 | |
| Mr. H. S. Mullins .. | Malabar .. .. | 1 | 2 | 3 | 63 | .. | .. | 4 | 1 | 5,212 |
| | South Canara .. | 9 | 22 | 17 | 215 | 4 | 11 | 8 | 13 | 5,213 |
| | Total .. | 10 | 24 | 20 | 278 | 4 | 11 | 12 | 14 | 10,425 |
| | Grand Total .. | 144 | 511 | 146 | 1,234 | 98 | 518 | 99 | 623 | 58,822 |
| | In 1895–96 .. .. | 72 | 497 | 153 | 895 | 144 | 767 | 126 | 325 | 36,956 |

* Includes the area of the four blocks shown against Mr. Gompertz and M.R.Ry. C. Raju Sastriar Avergal.
† Includes one block cancelled during the year.
‡ Settled by M.R.Ry. P. S. Singaravelu Pillai Avergal.

M.R.Ry. Singaravelu Pillai Avargal, who replaced M.R.Ry. C. Raju Sastriar Avargal, took charge of his division on the 22nd August 1896, but the notification transferring the blocks to his name was not published till the close of September. Mr. Lushington returned on the 16th July 1896 from three months' privilege leave and Mr. Mullins who was placed in temporary charge of his division was appointed Forest Settlement-officer of the West Coast division—Malabar and South Canara. In August Mr. Mullins obtained three months' leave and returned in November, when he commenced settlement operations in the two districts allotted to him. Mr. Smith was also on privilege leave for one month from 25th May 1897. M.R.Ry. Singaravelu Pillai avargal was retransferred to the Revenue Department on 29th April 1897 to make room for Mr. F. V. P. Gompertz (a Survey officer) who assumed charge on the 10th May. Compared with the previous year the total outturn of all Forest Settlement-officers was not altogether satisfactory considering that five instead of four officers were employed during the year under review. The work in the Trichinopoly division was retarded by the change of officers. This division was practically without a Forest Settlement-officer for four months during the year and the work of M.R.Ry. Singaravelu Pillai Avargal was certainly satisfactory. Mr. Mullins was, as already observed, very active in inspecting boundaries Mr. Smith's work continued satisfactory. M.R.Ry. Ganapayya Garu, who took charge on 9th July 1896, also did good work. Besides the outturn shown in the above statement, he settled about 400 claims relating to blocks which were not reported upon. Mr. Lushington's outturn was poor. The short work was noticed by the Board on more than one occasion and eventually it was found necessary to provide him with additional work in other districts as the settlement work in Ganjám and Gódávari was not quite ready for disposal. Sanction of Government was obtained in March last to the transfer to his file of certain blocks in Kurnool and since the close of the year some more from Kistna have been added. It is believed that under this arrangement Mr. Lushington will show better results during the current year. Work of the Forest Settlement-officers was regularly scrutinized in the quarterly reviews and unsatisfactory progress therein noticed.

9. *Outturn of Forest Settlement work by Revenue Divisional Officers.*—In *Ganjám* two blocks were pending at the close of the year under report with the Senior Assistant Collector, Berhampur, and one with the Principal Assistant Collector, Chicacole One of these awaits information about the land commanded by proposed irrigation channels and the others await submission of final notifications. Out of the seven blocks in *Vizagapatam* pending at the beginning of the year one was gazetted as reserved forest and the pendency of the others has already been explained in paragraph 7 *supra*. In *Nilgiris*, which will eventually be the only district under the charge of a Divisional officer, there was not much work to be done.

10. *Selections for further reservation.*—The proposed selections in the Agency tract "Pondokhol" in *Ganjám* await disposal of a suit brought by the Zamindar of Kharada claiming a portion of the mutta concerned. In *Vizagapatam* Mr. Peet has since reported the results of his inspection made in June last of the areas in the Agency tracts proposed for reservation, and has been directed to include in his proposals all land which it is considered that Government may fairly claim. In paragraph 11 of the last year's report it was stated that selection work in *Gódávari* was complete, but the Collector now reports that it is under contemplation to add 26 square miles in the Ellore taluk. As reservation in the district was long ago determined after a detailed inspection and report by Mr. Arundel and the Special Assistant Agent, very cogent reasons will have to be adduced for the additional proposals. The final scheme for *Kistna* has not yet been submitted, but selection work is reported to have been completed. In *Kurnool* good progress was made in the selection of the eastern Nallamalai extensions. In *Bellary* 103 square miles in the Kudligi and 31 square miles in the Bellary and Alúr taluks remain to be selected and the inadequacy of the existing areas in the taluks of Bellary, Adóni and Alúr for purposes of fuel and fodder was felt by the district authorities during the recent famine and is engaging their serious attention. Considerable advance was made in the matter of selection in *Cuddapah*. Little progress was made in *Nellore* owing to the ill-health of Mr. Brougham and the changes in District Forest-officers. This matter should receive the careful attention of the Collector. For the reasons given in paragraph 7 the selection of

additional areas was held in abeyance in *Salem*. The advisability of bringing under the Forest Act, 43 blocks of about 330 square miles selected in previous years is under consideration by the Collector and the Conservator. Selection work in *Trichinopoly* had already been completed and all the selected blocks except those in the Musiri taluk were notified under section 4 during the year. The blocks in Musiri are undergoing revision. Fifty-three square miles are proposed to be added to the forest area in the *Nilgiris*, about 36 square miles of which appertain to the proposed Wenlock Downs reserve in Todanad. This block has since been notified under section 4. The remaining areas lie in Paranginad and Wynaad. In all other districts except *Malabar* nothing more remains to be done. As stated in last year's report proposals for further reservation in *Malabar* have to be postponed pending settlement of the question of jenm right. In paragraph 9 of the Government order reviewing the report for the last year it was remarked that the question of the adequacy of reservation was not discussed by the Board. In some districts the proportion of forest area to the district and unoccupied areas appears low, but the Board considers that extensions in excess of the area in the abstract (which follows) are impracticable if a liberal margin of unreserved land is to be allowed for free grazing, for local requirements and for extension of cultivation. The estimate in the subjoined abstract is, liable to reduction owing to forest settlement operations or other causes :—

ABSTRACT F.

| District. | Originally sanctioned estimate of areas for reservation. | Area brought under the Forest Act. | Additional estimated area selected or to be selected. | Total estimate proposed to be reserved. | Percentage of column 5 to the area of Government lands in the district. | Percentage of column 5 to the total unoccupied culturable and uncultivable lands in the districts. |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | | |
| Ganjám .. .. .. .. .. | 656 | 556 | 85 | 649 | 14·62 | 16·90 |
| Vizagapatam .. .. .. .. | 415 | 415 | .. | 415 | 30·13 | 37·18 |
| Gódávari .. .. .. .. | 997 | 953 | 37 | 990 | 25·46 | 42·23 |
| Kistna .. .. .. .. .. | (*a*) .. | 1,164 | .. | 1,164 | 20·72 | 47·33 |
| Kurnool .. .. .. .. .. | 2,677 | 2,331 | 169 | 2,500 | 36·77 | 52·42 |
| Bellary .. .. .. .. .. | 462 | 626 | 275 | 901 | 19·49 | 45·89 |
| Anantapur .. .. .. .. | 535 | 514 | .. | 514 | 11·24 | 21·38 |
| Cuddapah .. .. .. .. | 2,649 | 2,360 | 58 | 2,418 | 31·95 | 44·62 |
| Nellore .. .. .. .. .. | 1,132 | 683 | 338 | 1,021 | 25·07 | 43·89 |
| Chingleput .. .. .. .. | 231 | 213 | 3 | 216 | 10·54 | 20·93 |
| North Arcot .. .. .. .. | (*a*) .. | 1,134 | .. | 1,134 | 29·03 | 44·94 |
| South Arcot .. .. .. .. | 835 | 715 | .. | 715 | 14·38 | 28·17 |
| Salem .. .. .. .. .. | 1,096 | 1,439 | .. | 1,439 | 26·69 | 44·22 |
| Trichinopoly .. .. .. .. | (*a*) .. | 297 | 63 | 360 | 13·40 | 35·36 |
| Tanjore .. .. .. .. .. | 23 | 18 | .. | 18 | 0·72 | 2·54 |
| South Canara .. .. .. .. | 1,011 | 1,109 | .. | 1,109 | 28·56 | 34·54 |
| Malabar .. .. .. .. .. | (*c*) 273 | 602 | 16 | 618 | 11·10 | 15·57 |
| Nilgiris .. .. .. .. .. | (*b*) 411 | (*b*) 375 | 53 | 428 | 44·72 | 66·35 |
| Coimbatore .. .. .. .. | (*c*) 1,812 | 2,280 | 9 | 2,289 | 31·22 | 65·53 |
| Madura .. .. .. .. .. | (*a*) .. | 621 | .. | 621 | 19·16 | 39·88 |
| Tinnevelly .. .. .. .. | 440 | 427 | 8 | 435 | 12·19 | 34·30 |

(*a*) No definite schemes were formulated and approved for these districts.
(*b*) Excludes leased forests.
(*c*) Final schemes were submitted only for the northern division of the district.

11. *Reserved lands not brought under settlement.*—Appendix C shows the extent of these lands in each district. Compared with the previous year there was a net decrease of 218 square miles. Three hundred and eleven square miles were added during the year, but 402 square miles were notified under section 4 and 127 square miles abandoned. The large area abandoned was the result of the latest forest policy and of the instructions given by the Board to Collectors to throw open all areas not to be constituted "reserved forests." Collectors were instructed to proclaim the abandonment of these tracts by notification in the District Gazettes and by beat of tom-tom in the villages concerned so that people who were not within reach of the District Gazette might know that the lands not required for forest purposes had been set free for the exercise of communal privileges Considerable areas have to be notified under section 4 in *South Canara* and *Kistna*. Besides 52 square miles notified during the year in Kistna, notifications for about 40 square miles more were pending with the Board or Government at the close of the year. The progress may be considered satisfactory; better results would have been obtained but for the heavy floods in August 1896 and the necessity for preliminary survey in many cases. For the latter work the services of a Surveyor were only available for about three months in the year. Little progress was made during the year in *South Canara* owing to the non-receipt of taluk maps from the Revenue Survey Department. The reserved lands in *Nilgiris* and *Bellary* consist chiefly of leased forests. The delay in notifying the lands in *Vizagapatam* has been explained in paragraph 10 *supra*.

12. *Survey of proposed reserves.*—During the year the Survey of India Party completed the survey of 61·7 square miles of proposed reserves in the *Salem* district—of 38 square miles in the *Kurnool* district and of 14·3 square miles in the *Trichinopoly* district. A staff of temporary surveyors and draughtsmen was also entertained departmentally in connection with proposals for further reservation. In the *Northern Circle* 189 miles of boundary lines were surveyed in *Ganjám*, of which 184 miles were mapped. Ten blocks comprising an area of 94 square miles were surveyed in *Vizagapatam*. The work in *Gódávari* consisted of the survey of three blocks and four enclosures in a proposed reserve and the preparation of maps therefor, besides the survey of a path and the demarcation of three newly-selected areas. The outturn in *Kistna* was only 20 square miles due to the illness of the surveyor and the delay in procuring a qualified substitute. In *Kurnool* the surveyor surveyed two blocks and the enclosures in the eastern Nallamalai blocks and also portions of the North Dhone block. In the *Central Circle* the work was confined to the *Salem* district as reported last year. It consisted mostly of the survey of disputed patta fields on the Kollimalais. Sixteen fields of about 72 acres were surveyed and plotted, in addition to areas specified in ten applications for lands on the Shevaroys. The surveyor was only entertained during part of the year. In the *Southern Circle* ten blocks covering an area of 5·63 square miles were surveyed in *Madura*. These will be plotted and marked upon the Survey of India maps. In *North Malabar* 34 miles of boundary lines of the Kanoth proposed reserve were surveyed, while in *South Malabar* the survey of 12 miles of the boundary of the new Amarampalam forest was effected. In *South Canara* a departmental surveyor chained 117 miles and plane-tabled 16 square miles. He surveyed and mapped in all five reserves with 11 square miles.

The draughtsmen were as usual engaged in preparing or revising sketch-maps to accompany notifications under sections 4 or 16. The outturn of their work in this direction was satisfactory.

13. *Demarcation of proposed reserves.*—The following statement shows the length of boundary lines preliminarily demarcated and the total and the average cost of the work, as compared with the figures of the preceding year.

PRELIMINARY demarcation work.

| | During 1895-96. | | | During 1896-97. | | |
|---|---|---|---|---|---|---|
| | Miles. | Cost. | Average cost per mile. | Miles. | Cost. | Average cost per mile. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Northern Circle.* | | RS. | RS. A. P. | | RS. | RS. A. P. |
| Ganjám .. .. .. .. | 35 | 100 | 2 13 9 | .. | .. | .. |
| Vizagapatam .. .. .. | 114 | 141 | 1 3 9 | 161 | 535 | 3 5 2 |
| Gódávari .. .. .. .. | .. | .. | .. | 44 | 178 | 4 0 9 |
| Kistna .. .. .. .. | 289 | 2,132 | 7 6 0 | 244 | 897 (a) 428 | 5 6 10 |
| Kurnool .. .. .. .. | 153 | 416 | 2 11 6 | 217 (b) 38 | 527 (b) 196 | 2 13 4 |
| Bellary .. .. .. .. | 48 | 60 | 1 4 0 | 479 | 603 | 1 4 2 |
| Anantapur .. .. .. .. | 25 | .. | .. | .. | .. | .. |
| Total, Northern Circle .. | 664 | 2,849 | 4 4 8 | 1,183 | 3,364 | 2 13 6 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. | 115 | 246 | 2 2 3 | 179 | 379 (c) 381 | 4 3 1 |
| Nellore .. .. .. .. | .. | .. | .. | 37 | 36 | 0 15 7 |
| Chingleput .. .. .. | 24 | 103 | 4 4 8 | 29 | 111 | 3 13 3 |
| North Arcot .. .. .. | .. | .. | .. | .. | .. | .. |
| South do. .. .. .. | 76 | 123 | 1 9 11 | 12 | 35 | 2 14 8 |
| Salem .. .. .. .. | 105 | 348 | 3 5 0 | 6 | 11 | 1 13 4 |
| Trichinopoly .. .. .. | 223 | 277 | 1 3 10 | 1 | 8 | 8 0 0 |
| Tanjore .. .. .. .. | .. | .. | .. | .. | .. | .. |
| Total, Central Circle .. | 543 | 1,097 | 2 0 4 | 264 | 961 | 3 10 3 |
| *Southern Circle.* | | | | | | |
| South Canara .. .. .. | 195 | 101 | 0 8 3 | 51 | 39 | 0 10 6 |
| North Malabar .. .. .. | .. | .. | .. | 5 | 33 | 6 9 7 |
| South do. .. .. .. | .. | .. | .. | .. | .. | .. |
| The Nilgiris .. .. .. | 11 | 79 | 7 2 11 | 120 | 763 (c) 285 | 8 11 9 |
| North Coimbatore .. .. | 3 | 23 | 7 10 8 | 36 | 564 | 15 10 8 |
| South do. .. .. .. | 5 | 21 | 4 3 2 | .. | .. | .. |
| Madura .. .. .. .. | .. | .. | .. | .. | .. | .. |
| Tinnevelly .. .. .. .. | 58 | 33 | 0 9 0 | 12 | 28 | 2 5 4 |
| Total, Southern Circle .. | 272 | 257 | 0 15 1 | 224 | 1,712 | 7 10 3 |
| Grand Total .. | 1,479 | 4,203 | 2 13 6 | 1,671 | 6,037 | 3 9 10 |

(a) Cost of erecting cairns.
(b) Repairs. Besides these, 1,032 miles were cleared free of cost by the subordinate forest establishment.
(c) Half the pay of the establishment employed on demarcation work, the other half being debited to permanent demarcation.

It will be observed from the above that in some districts no work was done during the year, and that in others, in the Central and Southern Circles, the outturn was very small. In these districts either reservation has practically come to a close or the outturn was commensurate with the selected areas on hand. Satisfactory progress was made in those districts of the *Northern Circle* where there were large areas to be notified under section 4. The outturn in *Kistna* would have been larger but for the illness of the surveyor and the unavoidable employment of the establishment, which should have undertaken this work, upon the collection of grazing revenue. The most noticeable increase occurred in *Bellary*, where a temporary Deputy Ranger was entertained for the conduct of the work.

The average cost per mile in *Vizagapatam* is higher than that of last year and the increase is ascribed to the incompetency of the temporary foresters who supervised the work and to the employment of special additional establishment on daily wages. The high rate in *Trichinopoly* is attributed to the dense growth of prickly-pear which had to be removed. The increase in the average rate in *North Coimbatore* and *Tinnevelly* was justified by the nature of the forests in which the work had to be done.

### (iii) *Demarcation.*

14. There has been no change in the system of permanent demarcation reported in previous years. F. No. 46 shows the work turned out under this head as well as the expenditure incurred under new works and repairs.

The following table presents the length of boundary lines permanently demarcated during the year as compared with the results of the preceding year :—

## Abstract G.—Demarcation work done during 1896–97.

| Districts. | Permanent. | | | | | | Re-clearing old lines, &c. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | During 1895–96. | | | During 1896–97. | | | During 1895–96. | | During 1896–97 | |
| | Miles. | Cost in Rs. | Average cost per mile. | Miles. | Cost in Rs. | Average cost per mile. | Miles. | Cost. | Miles. | Cost. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | Rs. | | Rs. |
| Ganjám | 27 | 756 | 28 0 0 | 30 | (a) 808 | 26 14 11 | 83 | 234 | 187 | (a) 550 |
| Vizagapatam | 38 | 639 | 16 13 1 | 13 | (a) 330 | 25 6 2 | 99 | 100 | .. | (a) 136 |
| Gódávari | 135 | 712 | 5 4 4 | 79 | 474 | 6 0 0 | 174 | 579 | 313 | (b) 330 / (b) 133 |
| Kistna | 57 | 927 | 16 4 3 | 125 | (a) 2,184 | 17 7 6 | 23 | (a) 1,720 / (a) 51 | 49 | (d) 1,202 / (d) 184 / 682 |
| Kurnool | 50 | 410 | 8 3 2 | 75 | 2,391 | 31 14 1 | 8 | 27 | (c) 414 | .. |
| Bellary | 449 | 2,473 | 5 8 1 | 125 | 651 | 5 3 4 | 200 | (b) 486 | 150 | (b) 429 |
| Anantapur | 99 | 533 | 5 6 1 | 62 | 200 | 3 3 7 | 10 | (a) 89 | 37 | (a) 376 |
| Total | 855 | 6,450 | 7 8 8 | 509 | 7,038 | 13 13 3 | 597 | 3,286 | 1,150 | 4,022 |
| *Central Circle.* | | | | | | | | | | |
| Cuddapah | 221 | 1,721 | 7 12 7 | (f) 165 | (e) 1,385 | 8 6 3 | 8 | (b) 3 / (b) 468 | .. | .. |
| Nellore | 6 | 55 | 9 2 8 | 46 | (a) 542 | 11 12 6 | 15 | (a) 168 / (a) 192 | 6 | 12 |
| Chingleput | 66 | 2,136 | 32 5 9 | 44 | (a) 1,616 | 36 11 7 | .. | (b) 97 / (b) 478 | 2 | (b) 25 / (b) 572 |
| North Arcot | 214 | 1,808 | 8 7 2 | 27 | (a) 339 | 12 8 10 | (c) 85 / (c) 2,095 | 596 | 584 | 1,760 |
| South Arcot | 213 | 3,682 | 17 4 7 | 187 | 2,972 | 15 14 3 | 28 | (b) 999 / 539 | 24 | (b) 61 / (b) 946 |
| Salem | 181 | 894 | 4 15 0 | 90 | 351 | 3 14 5 | 591 | 635 | 468 | 565 |
| Trichinopoly | 216 | 1,123 | 5 3 2 | 70 | 376 | 5 6 0 | .. | (c) 290 | (c) 21 / (c) 222 | 156 |
| Tanjore | .. | .. | .. | .. | .. | .. | 12 | 8 | .. | .. |
| Total | 1,117 | 11,391 | 10 3 2 | 629 | 7,581 | 12 0 10 | 2,834 | 4,473 | 1,327 | 4,097 |
| *Southern Circle.* | | | | | | | | | | |
| South Canara | 37 | 22 | 2 12 7 | 133 | 1,202 | 9 0 7 | .. | .. | .. | .. |
| North Malabar | 7 | 284 | 40 9 1 | .. | .. | .. | 1 | 10 | 76 | (b) 430 / (b) 488 |
| South Malabar | 5 | 203 | 40 9 7 | 1 | 49 | 49 0 0 | .. | .. | 18 | 154 |
| The Nilgiris | 28 | 564 | 20 2 3 | 37 | 411 | 11 1 8 | 82 | 1,384 | 261 | (e) 1,088 |
| North Coimbatore | 140 | 1,884 | 13 7 4 | 24 | 313 | 13 0 8 | 31 | 134 / (a) 204 / (b) 488 | 213 | (b) 2,864 / (b) 401 |
| South Coimbatore | .. | .. | .. | .. | .. | .. | 44 | 265 | 36 | 639 |
| Madura | .. | .. | .. | .. | .. | .. | 2 | 20 | .. | 3 |
| Tinnevelly | .. | 76 | .. | 43 | 127 | 2 15 3 | 33 | 223 | 5 | 180 |
| Total | 217 | 3,033 | 13 15 8 | 238 | 2,102 | 8 13 4 | 193 | 2,728 | 549 | 6,247 |
| Grand Total | 2,189 | 20,874 | 9 8 6 | 1,376 | 16,721 | 12 2 5 | 3,624 | 10,487 | 3,026 | 14,366 |

(a) Includes cost of erecting and repairing cairns, &c. (b) Cost of temporary establishments. (c) Cleared by the Forest establishment. (d) Cost of sign-boards for boundary and coupe lines.
(e) Includes hal fthe pay and allowances of temporary establishment, the other half being debited to preliminary demarcation. (f) Includes rectifying 53 miles of demarcation.

The statement, except in two cases, does not include lines recleared by subordinates free of cost. In *Tanjore*, *South Canara* and *North Malabar*, demarcation is practically complete. In *Madura* the demarcation of outer boundaries is complete, that of enclosures, as also the verification of boundaries and the replacing of cairns, has to be done. In North Arcot the demarcation of the Malayali settlements in the Javadi hills has still to be accomplished. It has been hitherto deferred pending receipt of the maps from the Survey of India. In South Arcot in the Tenmalai hills similar work has also to be undertaken. The decrease in *Bellary* was due to pressure of other work, chiefly enumeration of date trees and putting down illicit tapping, and in *Cuddapah* to fewer blocks having been finally notified during the earlier part of the year and to the staff having been employed on preliminary demarcation of selected blocks. In *Salem* work was postponed pending receipt of final orders on the question of taking up some of the reserves notified under section 4 for which settlement was completed. In *South Canara* better progress could have been made had the Range officers not been fully engaged in settlement and survey work. The outturn in the remaining districts was commensurate with the work on hand.

Compared with the cost of the preceding year there was a marked increase in *Vizagapatam*, *Kurnool*, *Chingleput*, *North Arcot*, *South Malabar* and *South Canara*. The increased rate in *Vizagapatam* is explained to be due to the inclusion of the cost of cairns, but this is apparently incorrect as the previous year's figures included also the cost of cairns. The matter is under inquiry by the Conservator. The work in *Kurnool* included clearing the taluk and district boundaries in the Nallamalai hills and other lines. The clearing of heavy growth in the Nallamalais where it was extremely difficult to procure labour, and the erection of a large number of cairns caused the increase. In *Chingleput*, *Nellore* and *North Arcot* a larger number of cairns and stone slabs respectively had to be erected which raised the average cost per mile of demarcation. The high rate in *South Malabar* is ascribed to the extreme inaccessibility of the tract demarcated and the increase in *South Canara* is attributed to the discontinuance of the system of permitting ryots to clear the boundaries and remove the trees cut, free of charge.

The large expenditure incurred in Kistna upon reclearing old lines, &c., is explained by the Collector as being due to alteration of boundary lines which had not been cut in accordance with the notification under section 16. This is anything but creditable to the officers concerned.

The total expenditure on permanent demarcation inclusive of reclearing old lines amounted to Rs. 31,087.

(iv) *Surveys.*

15. The following is a brief resumé of the work of the Survey of India parties :—

Party No. 19 was employed in four districts and the year's outturn was—

| District. | Triangulation. | Traversing. | Topography. | |
|---|---|---|---|---|
| | | | Total. | Reserved forests. |
| | SQ. MLS. | L. MLS. | SQ. MLS. | SQ. MLS. |
| Salem .. .. .. .. | .. | 263·3 | 540·3 | 383·9 |
| Kurnool .. .. .. .. | 500 | 464·6 | 233·2 | 173·4 |
| North Arcot .. .. .. | .. | .. | 253·1 | 188·25 |
| South Arcot .. .. .. | 500 | .. | .. | .. |
| Total .. | 1,000 | 727·9 | 1,026·6 | 745·54 |

The total area surveyed, of which 745·5 square miles are reserved forests, shows a considerable increase on any previous outturn, and is ascribed to the favourable season and increased efficiency of the party.

The fair drawing of all the forests, with the exception of 19·3 square miles to be embodied in next season's fair mapping, was completed during the recess. Four sheets of Salem and ten of North Arcot have been kept back, pending insertion of boundaries and minor omissions and corrections.

The actual expenditure, inclusive of cost of instruments for the financial year, amounted to Rs. 85,029–2–6 and for the survey year ending 31st August 1897 to Rs. 88,861–9–8, or Rs. 84 per square mile of topography.

The cost per square mile was considerably in excess of the last four years and was due to various causes. The principal one, however, was the difficult nature of the country combined with the density of the forests in the Kurnool district. Incessant line-clearing was necessary which retarded work. Extra travelling allowance was paid to all working in the Kurnool district. Increased allowances to compensate for dearness of provisions had to be given to menials, and the number of the latter had to be increased owing to the difficult nature of the work. It is very improbable that the cost per mile will, as long as the party is employed in such difficult country, fall to the previous year's low rate of Rs. 66.

The year's work of Party No. 9 is represented by the following :—

| District. | Triangulation. | Traversing. | Topography. | |
|---|---|---|---|---|
| | | | Total. | Reserved forests. |
| | SQ. MLS. | L. MLS. | SQ. MLS. | SQ. MLS. |
| Trichinopoly .. .. .. | 250 | 244 | 120·84 | 65·56 |
| Coimbatore .. .. .. .. | 1,200 | 280 | .. | .. |
| Total .. | 1,450 | 524 | 120·84 | 65·56 |

The outturn of topography, of which 65·56 square miles are reserved forests, was very small. This was unavoidable. The party had to contend with no ordinary difficulties The detail work could not be commenced until triangulation and traversing had been undertaken; consequently a large proportion of the party was unable for some time to take any active part in the work. In addition, the majority of the surveyors had no previous experience of topographical surveying and though an attempt was made to train them during the enforced interval of idleness, above alluded to, very few attained sufficient proficiency to be of much use. To add to the difficulties the weather was most unfavourable during November and early part of December owing to the prevalence of heavy rain and dense mists, and to make matters worse all the khalasis locally entertained absconded as soon as commencement of work was attempted. Forest guards and watchers are also said to have caused delay, although the District Forest-officer did his utmost to help on the work. In this respect matters improved in the early part of 1897. The staff suffered considerably from fever, for which the Pachamalai hills are notorious.

The cost of the party for the financial year was Rs. 86,336–4–9, of which a large portion is debitable to the Central Provinces. The total for the survey year is Rupees 83,501–4–6, of which Rs. 3,572 are chargeable to the Central Provinces.

The rate per square mile amounts to Rs. 353–15–3. The expenses incurred in transferring the whole party with its impedimenta from the Central Provinces to Trichinopoly and Bangalore were very heavy and the difficulties and delays already explained account for the exceedingly high rate.

For the ensuing season, under instructions from the Deputy Surveyor-General, the two parties have been combined under charge of one officer. Sub-surveyors, who proved inapt at learning detail surveying, have been discharged. The parties have been re-arranged into three sections. A training camp for sub-surveyors has been organized. This, it is hoped, will provide material for a fourth section in 1898–99.

The foregoing arrangements will effect a reduction in cost. It cannot be expected for some little time that the cost per mile will again fall to Rs. 66. Surveying in Kurnool and North Coimbatore presents more than ordinary difficulty.

The total cost of the two parties after deduction of the Government of India contribution, as adjusted by the Accountant-General amounted to Rs. 82,638.

16. *Departmental Surveys.*— In Bellary, a temporary surveyor was entertained to survey portions of the boundaries of old reserves that did not follow survey numbers.

Twenty square miles were surveyed. Of ten reserves the survey of six blocks is reported correct, that of three others awaits inspection by the District Forest-officer, while the survey of the remaining one was only partly completed. In Salem, the survey of two reserves not taken up by the Survey of India party, was commenced by a temporary Surveyor.

17. The services of the temporary draughtsmen referred to in paragraph 12 *supra* were also utilized in posting and maintaining the maps prescribed in the Forest Code. Particulars of information showing the progress of work in this direction are given in Appendix D.

The area of reserved forests for which final maps have been prepared up to 30th June 1897 amounts to 6,712 square miles. The details for each district will be found in Appendix E.

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## CHAPTER II.—MANAGEMENT OF STATE FORESTS.

### (1) Regulation of Management.

#### (a) *Working Plans and their control.*

#### Northern Circle.

18. In the *Northern Circle* no working plans have as yet been framed for the forests in the *Ganjám*, *Vizagapatam*, *Kurnool* and *Anantapur* districts. In *Gódávari* the only plans are for the Coringa and Upputur mangrove forests and for the Narsapur plantations; the two former were closely adhered to but some deviation from the latter was found advisable. In *Kistna* a working plan for Orr's reserve of palmyra (*Borassus*) was approved by the Conservator during the year, and the preparation of plans for twelve other reserves was in progress. The proposals for the bulk of the grazing working circles referred to in the last report were somewhat more elaborated, but their completion and submission for approval await the notification under section 4 of the Forest Act of all the areas comprised in each working circle. The Guntúr working plan for babul (*Acacia arabica*) was adhered to. Coppice was much damaged by floods, but there were abundant seedlings. In the Gopuvanipalem working circle (casuarina) it was found that the growth is very unequal. Sample plots of fairly equal size were selected and the trees in alternate lines were felled. The fellings took place in different months and it is proposed to treat a fourth plot in the same manner in December. By these experiments the influence of the season of felling upon the coppice will be ascertained.

In *Bellary* no fresh plans were made as the staff was fully occupied with ordinary works and the additional work of enumeration of date trees. Experimental coupes which were opened showed that the demand was too limited to warrant working plans on a large scale and even the Ramandrug working plan had to be modified during the year. That portion of the previous year's coupe [sub-compartment 10 (*b*)] which remained unfelled was cut over during the year and the felling of 8 (*d*) was begun, but was stopped as a quantity of last year's wood remained unsold. Another coupe for the year—6 (d)—was sold for Rs. 12 an acre. The failure of the working plan is ascribed to the distance of the forest from Bellary, transport alone costing Rs. 5–10–0 per ton. The famine has also had some effect as the market was stocked with cheap wood brought in by poor villagers for sale. There was much theft from all the reserves near Bellary and even the avenue trees were felled in many places. The necessity for recasting the working plan is receiving the attention of the Conservator.

#### Central Circle.

In *Nellore* the provisions of the Survepalli working plan (2,750 acres) which was approved by the Conservator during the year were adhered to, but those of the Rapur Yerrakondas were not carried out, the Range officer having been engaged in

other work. The casuárina plantations, and the annual compartments in the Srîharikóta forests were not worked to the full extent owing to illness of the Ranger and his absence on leave. In *Cuddapah* the provisions of the Balapalle working plan were adhered to, but the cutting was commenced so late that the wood cut was not measured and delivered to the Railway Department within the year. In *South Arcot* the Annamalai reserved forest in the Tiruvannámalai range, the casuarina plantations in Talankodu and Shonankuppam comprised in the working circle A were worked of accordance with the preliminary working scheme and yielded favourable results. In the casuarina plantations trees die during the hot season in compartments to be exploited some years hence in accordance with the rotation fixed. It remains to be seen how far the estimated revenue of such compartments will be affected. The coupes in several of the fourteen blocks for which tentative working plans based upon area were approved in 1894–95 remained unsold during the year for want of purchasers. A preliminary working scheme for the casuarina plantations of Dhoni Durai (north and south) and Nochikadu on the coast in the Cuddalore range was approved by the Conservator during the year. The preparation of the working scheme for the Periakuppam plantation referred to in last year's report was held in abeyance pending the completion of its final demarcation and that of the adjoining Periapattu plantation so as to conveniently include these two plantations in one working circle. Working plans based upon area were drawn up during the year for fourteen blocks, 25,335 acres in extent, and approved by the Conservator. The provisions of the Morur working plan in the *Salem district* were adhered to. In *Tanjore* the Tirumálavásal casuarina plantations, for which a working plan was approved by the Board in 1895–96, were worked according to its provisions. In the *Trichinopoly district* a revised working plan for the Cauvery south bank plantations and a preliminary working plan for the Manaparai hill reserved forests were approved by the Board and the Conservator, respectively, during the year.

## Southern Circle.

In *Tinnevelly* plans were prepared for the systematic treatment as coppice with standards of an area aggregating 19,585 acres. Eight plans were prepared, of which one was withdrawn by the Collector, four were approved by the Board during the year and three have also been sanctioned since. The plans might have been much simpler and based upon area alone had the working circles not included past located fellings carried out without reference to any plan. The results of the several coupes worked over in the various working circles are shown below:—

| Number. | Name of coupe. | Area in acres. | Outturn. | | Cost of felling establishment, &c. | Net profit. | Net profit per acre. | Net profit per acre per annum. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | | | Quantity. | Value. | | | | | |
| | | | | | Rs. | Rs. | Rs. A. P. | Rs. A. P. | |
| 1 | Rengarcoil compartment A, coupe I. | 56 | Charcoal 3 tons, firewood 278 tons. | 101 | 7 | 94 | 1 10 10 | 0 1 4 | These were worked on lump sum contract and the information in column 4 has been obtained from the contractors. |
| 2 | Rengarcoil compartment B, coupe I. | 56 | Firewood 78 tons. | 59 | 8 | 51 | 0 14 7 | 0 0 9 | |
| 3 | Valaikulam, coupe I. | 57 | Charcoal 5 tons, firewood 248 tons. | 591 | 5 | 586 | 10 4 6 | 0 8 3 | |
| 4 | Kalakad, coupe I. | 235 | Timber 991 cubic feet, charcoal 216 tons, firewood 477 tons. | 1,415 | 159 | 1,256 | 5 5 6 | 0 4 9 | Felled by contract. Produce removed under permits. |
| 5 | Coupe III, Padarmalai working circle. | 135 | Small timber 377 cubic feet, firewood 1,982 tons. | 4,595 | 2,122 | 2,473 | 18 5 1 | 0 14 8 | This alone was worked directly by departmental agency. |

The actual yield of coupe III of the Padarmalai working circle only amounted to 15 tons per acre against 20 tons estimated in the working plan. The revenue per acre per annum has been As. 14–8 instead of Rs. 1–13–10 estimated. This difference was in a large measure due to the want of supervision and interest on the part of the subordinate in charge of the work. As regards the annual coupes of the other working circles the outturn per acre per annum for each coupe is about the same as that estimated. In *Madura* Mr. Latham, Assistant Conservator, has surveyed many of the hills covered with scrub in the Dindigul and Mélúr taluks and has classified the stock. The Conservator remarks: "It will be justifiable now to continue the coupe fellings, hitherto conducted without regard to the supply and sustained yield and on that account it was found expedient to check them. The preparation of simple working plans should offer no difficulty." In *Nilgiris* the uncertain demand for fuel on the Ootacamund plateau has prevented the introduction of Mr. Tireman's working plan. The plantations continued to be worked under Mr. Gamble's original plan which has been more regularly followed in Coonoor than in Ootacamund, the demand being more fixed. The working plan for the experimental treatment of a part of the Vellamundi reserve in *North Coimbatore*, referred to in the last report, was approved during the year. The main feature of the plan consists in the restocking of the blanks by sowings of various species with the castor-oil plant to act as nurse. It is hoped the proceeds from the sale of the castor-oil seeds will more than cover the cost of the sowings. Seeds were sown during the year, but towards its close germination was not general for want of sufficient rain. The rough working plans drawn up for the working of the babul trees (*Acacia arabica*) in the tank-beds of Adiyur and Kunnattur in the Erode taluk were not carried out during the year, the local officers having been fully engaged in settlement work. In *South Coimbatore* the rotation of the Sholakarai working plan having proved too short, the Acting Conservator (Mr. Hooper) sanctioned a period of rest leaving the proposed alteration to be decided by the permanent Conservator (Mr. Cherry). Similarly, a plan was under consideration for the Chinnar working circle. The initial coupes were sanctioned by Mr. Hooper, but the question of the revision of the original plan has been left to be decided by Mr. Cherry. The Aiyarangal block was brought under coppice felling with standards, in accordance with a plan, and yielded a revenue in excess of the estimate. In the case of the Singara Tope working circle the provisions of the plan for securing the introduction of valuable species into the re-growth have not proved a success, and it has been decided to proceed with rotation fellings but to limit the experiment of the sowing and planting to small areas. The full area of the year's coupe was not cut owing to difficulties in procuring labour. Although there is no registered working plan for the reserved forests in *North Malabar*, their working is so far organised that selection fellings are being conducted in blocks in rotation. The maximum outturn has been fixed. In *South Malabar* the operations in the Nilambur teak plantations and the new Amarampalem forest were conducted in accordance with the working plan prepared by Mr. P. M. Lushington. Thinnings in the former were carried out over 717 acres at a cost of Rs. 440. In the natural forests, coupe II was felled and coupe I cleared for planting at a cost of Rupees 2,635 for 80 acres. No work took place in the Walayar forest, reproduction during the first rotation being less advanced than estimated. The collection of information for preparing a working plan for the Chenat Nair forest was in progress. In *South Canara* a simple plan for working fuel in the Sarpanamane reserve was approved during the year.

(b) *Annual Plans of Operations.*

19. In the *Northern Circle* the plans of operations were fairly well followed and no serious divergencies took place. In Ganjám the construction of a rest-house on the Mohiri Hills was postponed pending selection of a site. Some inspection paths were not made as they were found unnecessary. There were some alterations in Gódávari partly owing to the bad season and partly to urgency, as for instance where tannah sheds were built instead of an inspection house. The chief deviations in Kistna were the postponement of improvement fellings in Vinukonda owing to change of rangers, and the supply of casuarina poles on an urgent indent from the Public Works Department. One range camp was not built. The work could not be proceeded with until a well has been sunk. In Kurnool the construction of some roads had to be deferred.

The services of the Assistant and Extra Assistant Conservators had to be utilized in selection, demarcation, and in preparing the boundary lines for the Survey of India Party. Permanent demarcation to the extent anticipated could not be completed, as the reserves were either not sanctioned during the year or not until very late. The drought also caused some alterations. In the *Central Circle* the plans of operations were, with only a few exceptions, adhered to in Chingleput, North Arcot, Nellore, Salem, Trichinopoly and Tanjore. In South Arcot the following works were undertaken, which had not been provided for in the plan of operations. About 1,500 cubic feet of small timber were extracted departmentally from the Tenmalais to meet local requirements; an unexpected indent for 2,500 tons of fuel for the South Indian Railway was met. Some 30,000 bamboo seedlings have been planted out in different reserves. In Cuddapah it was found advisable to defer the construction of one proposed road in favour of another more urgently required. The proposed collection of small timber in Badvel had to be abandoned. The departmental collection of gallnuts was not proceeded with as the crop was too poor and the market slack. In the *Southern Circle*, the annual plan was adhered to for the most part in South Malabar and Nilgiris. In Tinnevelly the proposed departmental operations in Srívilliputtúr and Nángunéri and the fellings of certain coupes were abandoned and contract system was adopted instead. The programme for working timber and fuel plantations in Madura was not followed owing to slackness of demand. The completion of some buildings was delayed and the construction of certain others not effected owing to difficulty in procuring labour. In *North Coimbatore*, there were several deviations. Proposed roads were not constructed as the establishment was required to clear boundaries for the Survey of India. Permanent demarcation was deferred pending decision of Government as to the retention of certain areas. Departmental collection of minor produce was adopted in lieu of leases to contractors. In North Malabar the main deviations were necessitated by changed conditions, while in South Canara the completion of some of the works was interfered with by the forest settlement operations.

The subject has not been dealt with in the reports from Bellary in the *Northern Circle*, and South Coimbatore in the *Southern Circle*.

## (2) Working of the year.

### (a) *Communications and buildings.*

20. The subjoined statement shows the outlay on communications and buildings during the year under report as compared with the previous year:—

| | 1895-96. | 1896-97. |
|---|---|---|
| | Rs. | Rs. |
| Roads and bridges ... ... ... ... ... ... | 28,313 | 47,268 |
| Buildings ... ... ... ... ... ... ... | 41,108 | 48,342 |
| Other works ... ... ... ... ... ... | 2,662 | 4,223 |

Compared with the figures of the previous year, there was an increase of expenditure under all heads, that under roads and bridges being particularly large. This is satisfactory as it shows that, as far as establishment and time permit, this most important means of developing and facilitating the working of the forests is receiving due consideration.

21. The expenditure on roads in the *Northern Circle* amounted to Rs. 12,738. A large portion of this was incurred in *Kistna* followed by *Gódávari* and *Kurnool*. In *Kistna* and *Gódávari* 38 and 10 miles of new roads were constructed in addition to the execution of repairs to existing roads. In the latter district the work lay in the Agency tracts of the Peddápuram range and in the Papikonda hills in the Yernagudem range. The work in *Kurnool* consisted chiefly of the repair of five miles of a ghât road besides the laying out and commencement of a new road. The latter when finished will tap the interior plateau of the Nallamalais and open them to wheel traffic.

In the *Central Circle* there was an expenditure of Rupees 7,398 on roads. In *Cuddapah* the construction of three and a half miles of the Pedarallasagudu road was continued during the year and a sum of Rs. 1,685 was spent upon the work. The

maintenance of two important roads and the continuance of the new Peddur ghât road in *North Arcot*, and the construction of two new roads in *Salem* formed the principal items of work in these districts.

In the *Southern Circle* the amount expended on roads was Rs. 27,132. The only district in which there was a noticeable expenditure on new works is *Coimbatore* (*North*) where a sum of Rs. 7,000 was spent in opening twenty miles of the Gundila valley road trace in the Kollegal range and Rs. 1,350 in opening a bridle-path of nine and a half miles from Mavanatham to Talamalai for connecting the head-quarters of the Talamalai range with Dimbum. In repairing two main ghât roads heavy expenditure was incurred. In *Tinnevelly* the most important work was the construction of a masonry bridge on the new Papanásam ghât road. The bridge is estimated to cost Rs. 3,500 and a sum of Rs. 2,482 was spent on it during the year under report. The work was a necessary one. The Ambásamudram range depends upon the timber and fuel brought from the ghâts along the road in question, and, as long as the road remained impassable, extraction of produce was impossible. Two traces for roads and two for bridle-paths were also undertaken, besides the execution of repairs to majority of the existing roads at a total cost of Rs. 2,399. A large amount was expended in *South Coimbatore* on new works and repairs, particularly on the latter. The chief works consisted of the construction of a masonry dam across the Tunacaduvu river, tracing of an inspection path and a bridle-path, extension of tram line into the felling compartment of the Tekadi leased forest and of repairs to the timber slide. In *North Malabar* ten miles of new roads were constructed in addition to repairs to the existing roads.

22. The expenditure under buildings has also risen in all the circles. In the *Northern Circle* attention was paid to the construction of rest-houses in the Agency tract of *Gódávari*, owing to the difficulty of securing quarters for the forest subordinates to live in. In *Kistna* seven new range camps were built during the year, while in *Kurnool* the Nandyal range-house and office were completed and the extensions to the subdivisional bungalow at Nandyal commenced, besides attending to the repair of existing buildings. A rest-house at Bukkapatnam in the *Anantapur* district was completed during the year.

In the *Central Circle* no works of importance were constructed during the year. A bungalow on the Buckingham canal at Dugarazpatnam in the *Nellore* district was purchased from the Public Works Department for Rs. 2,000 to be used as a rest-house. A few rest-houses in *Chingleput* and *Salem* and sundry other works in other districts were executed.

In the *Southern Circle* the principal outlay on buildings was incurred in *Tinnevelly*, *North* and *South Coimbatore* and *South Malabar*. The chief works in *Tinnevelly* were the completion of a rest-house with out-houses at Muthabaruttu on the Srívilliputtúr hills and the commencement of a line of huts for subordinates at Pápanasam tannah site. In *South Coimbatore* the construction of the Punachi rest-house and the workshop for the saw-mill were the most important undertakings during the year. In *North Coimbatore* the erection of some rest-houses and a range office and of outhouses to rest-houses formed the chief important works in this division.

23. *Tramways.*—Form No. 65 shows the results of the working of tramways.

In *Nellore* the actual outturn at Sríharikóta was in excess of 1895–96 by 1,607 tons, though there was a fall in the number of ton miles by 299. The short fall is ascribed to the shorter distance of $2\frac{1}{2}$ miles worked during the year against $5\frac{3}{4}$ miles for a major quantity in the year preceding. Though the quantity cut during the year was greater than in the previous year, the rates charged were less owing to the shorter distance carried and this accounts for the smaller profit. The net loss up to the end of 30th June 1897 has been reduced from Rs. 748 to Rs. 709. In the casuarina plantation range there was a decrease of 163 tons in the outturn due to the illness of the range officer. The net gain on this line up to the end of last forest year is Rs. 26,283.

The tramway in *Cuddapah* continued to work at a loss. The length of line worked during the year was 2 miles against $1\frac{1}{2}$ miles in the previous year, while the outturn was less by $209\frac{1}{2}$ tons. The total loss up to the 30th June 1897 was Rupees 3,897.

In *South Coimbatore* the length of the line was extended from 4 miles to 4⅝ miles. There was a decrease of 378 tons of timber in the outturn during the year and of 625 ton miles. The decrease was chiefly due to the distance of the felling compartment from the tramway *terminus* and to the difficulty of working on wet days which is now being gradually overcome. The total loss up to the end of 30th June 1897 was Rs. 22,973. The real advantage gained by the working of the tramway is that wood is extracted which under other circumstances it would be impossible to work out. In the year under review circumstances prevented much advantage being taken of this.

### (b) *Protection of Forests from injury.*

#### (1) General Protection and Breaches of Forest Law.

24. The following summary shows new cases of the year with particulars of last year for comparison :—

| Circle. | Year. | Number of cases pending at commencement of year. | New cases of the year. | | | | | Total cases. | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|
| | | | Injury by fire. | Unauthorised felling, &c. | Illicit grazing. | Other offences. | Total new cases. | | |
| Northern .. | 1895-96 .. | 493 | 12 | 1,809 | 802 | 239 | 2,862 | 3,355 | *567 |
| | 1896-97 .. | *567 | 33 | 2,268 | 913 | 398 | 3,612 | 4,179 | 710 |
| | Difference .. | + 74 | + 21 | + 459 | + 111 | + 159 | + 750 | + 824 | + 143 |
| Central .. .. | 1895-96 .. | 574 | 20 | 2,229 | 2,190 | 258 | 4,697 | 5,271 | 595 |
| | 1896-97 .. | 595 | 22 | 2,629 | 2,745 | 209 | 5,596 | 6,191 | 682 |
| | Difference .. | + 21 | + 2 | + 400 | + 555 | − 58 | + 899 | + 920 | + 87 |
| Southern .. | 1895-96 .. | 298 | 62 | 892 | 837 | 260 | 2,051 | 2,349 | 418 |
| | 1896-97 .. | 418 | 43 | 1,050 | 814 | 523 | 2,430 | 2,848 | 384 |
| | Difference .. | + 120 | − 19 | + 158 | − 23 | + 263 | + 379 | + 499 | − 34 |
| Presidency .. | 1895-96 .. | 1,365 | 94 | 4,930 | 3,829 | 757 | 9,610 | 10,975 | 1,580 |
| | 1896-97 .. | 1,580 | 98 | 5,947 | 4,472 | 1,121 | 11,638 | †13,218 | 1,776 |
| | Difference .. | + 215 | + 4 | + 1,017 | + 643 | + 364 | + 2,028 | + 2,243 | + 196 |

* Seven cases omitted in last year's return from Gódávari. † Petty officers let off with a warning have not been included.

For the Presidency there is an increase under every head. The cases of injury by fire increased in the *Northern circle* mainly in the *Bellary* district. It is reported but little damage was done as most of the grass had been removed. The increase under unauthorized felling occurred principally in the *Northern* and *Central* circles. To a very great extent the prevailing scarcity and the dearness of food were the cause. Petty thefts were very rife and in some cases assumed rather serious proportions. In *Bellary*, for instance, wood was stolen for sale from most of the reserves near Bellary and even avenue trees were cut for the same purpose. The large increase in *South Arcot* is ascribed to better detection and to offences in unreserved lands. Under grazing without permission, the increase is due to illicit browsing of goats chiefly in the *North* and *South Arcot* districts. The enhanced pound fees sanctioned for the Tiruvannámalai taluk were not enforced during the year. In *Trichinopoly*, there was an increase of 173 cases. These occurred in the "padugais" (lands reclaimed in the Cauvery and Coleroon rivers by the Public Works Department) which have been handed over to the Forest department. The ryots turn their cattle loose and the latter naturally wander to these lands where there is good fodder. Prosecutions generally fail as it cannot be proved the owners "permitted the cattle to trespass." The increase under other offences occurred principally in *Gódávari*, *Bellary* and *South Canara*. In *Gódávari*, it was the result of better detection; more attention was paid to cases of unauthorized "kumri" cultivation; in *Bellary*, there were many cases of illicit tapping of date trees; it is only within the last year or two the Forest department has exercised control over these. In *South Canara*, it was found necessary to take active measures against unlicensed "kumri" cultivation on Government lands; 491 cases

were reported in one range, several of these were withdrawn. A number of cases of illegal inclusion of Government land by ryots was also reported. Prosecution was only instituted in glaring cases, *e.g.*, a ryot who, according to his "chitta," was only entitled to 11 acres of *kan* land, had included over 300 acres in the boundaries to be surveyed and demarcated as his property.

The number of cases pending at close of the year was 1,776, the majority of which was newly reported cases.

25. The following statement shows the disposals of offences during the year and a comparison with the previous year:—

| Circle. | Year. | Total. | Withdrawn. | | Compounded. | | Prosecuted. | | Percentage of cases prosecuted to disposals. | Percentage of acquittals to cases prosecuted. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Number. | Percentage. | Number. | Percentage. | Convicted. | Acquitted. | | |
| Northern .. | 1895–96 .. .. | 2,795 | 302 | 10·8 | 1,269 | 45·4 | 940 | 284 | 43·8 | 23· |
| | 1896–97 .. .. | 3,469 | 546 | 15·7 | 1,742 | 50·2 | 948 | 233 | 34·1 | 19·7 |
| | Difference .. | + 674 | + 242 | + 4·9 | + 473 | + 4·8 | + 8 | — 51 | — 9·7 | — 3·3 |
| Central .. | 1895–96 .. .. | 4,676 | 460 | 9·8 | 2,463 | 52·7 | 1,436 | 317 | 37·5 | 18· |
| | 1896–97 .. .. | 5,509 | 727 | 13·2 | 3,256 | 59·1 | 1,284 | 242 | 27·7 | 15·8 |
| | Difference .. | + 833 | + 267 | + 3·4 | + 793 | + 6·4 | — 152 | — 75 | — 9·8 | — 2·2 |
| Southern .. | 1895–96 .. .. | 1,931 | 247 | 12·8 | 799 | 41·4 | 690 | 195 | 45·8 | 22· |
| | 1896–97 .. .. | 2,464 | 351 | 14·2 | 795 | 32·3 | 1,121 | 197 | 53·5 | 14·9 |
| | Difference .. | + 533 | + 104 | + 1·4 | — 4 | — 9·1 | + 431 | + 2 | + 7·7 | — 7·1 |
| Presidency .. | 1895–96 .. .. | 9,402 | 1 009 | 10·7 | 4,531 | 48·2 | 3,066 | 796 | 41·1 | 20·5 |
| | 1896–97 .. .. | 11,442 | 1,624 | 14·2 | 5,793 | 50·7 | 3,353 | 672 | 35·1 | 16·7 |
| | Difference .. | + 2,040 | + 615 | + 3·5 | + 1,262 | + 2·5 | + 287 | — 124 | — 6·0 | — 3·3 |

The total number of cases disposed of during the year exceeds the total of the previous year by 2,040. This figure excludes 2,018 petty offences inculpating 3,027 people in *South Canara*, and 632 cases in *South Arcot* in which the offenders were simply warned. The number of withdrawals has increased and was due to the rejection by District Forest-officers of petty offences, of cases of long standing and of cases in which the evidence was considered insufficient to procure a conviction. Subordinates have little or nothing to do with the subject of withdrawals. An offence is discovered and whether the evidence is sufficient or insufficient to warrant punishment, has to be reported to the District Forest-officer.

The number of cases compounded has increased by 1,262 or 2·5 per cent. in the Northern and Central circles. It is reported that only cases, which were clearly proved and in which the offenders offered to pay compensation, have been compounded.

The following table gives the sums collected as compensation during the year in each circle:—

| Circle. | During 1895–96. | | | During 1896–97. | | |
|---|---|---|---|---|---|---|
| | Amount of compensation realized. | Average amount. | | Amount of compensation realized. | Average amount. | |
| | | Per case. | Per person accused. | | Per case. | Per person accused. |
| | Rs. | Rs. A. P. | Rs. A. P. | Rs. | Rs. A. P. | Rs. A. P. |
| Northern .. .. .. .. | 13,512 | 10 6 5 | 3 8 1 | 18,406 | 10 9 0 | 3 11 7 |
| Central .. .. .. .. .. | 15,806 | 6 4 2 | 2 3 2 | 19,286 | 5 14 9 | 2 8 7 |
| Southern .. .. .. .. | 5,821 | 7 3 5 | 2 6 4 | 7,587 | 9 8 8 | 3 9 3 |
| Total .. | 35,139 | 7 7 6 | 2 7 10 | 45,279 | 7 13 0 | 2 13 7 |

The average for the year exceeds that of 1895–96 by As. 5–6 per case and As. 5–9 per person accused. The increase in the *Northern circle* is due to the collection of Rs. 500 in one case from one man for illegal collection of horns and Rs. 410 in two cases, in *Vizagapatam*, and in the *Southern circle* to increased compensation collected in *South Canara*.

In the *Southern circle* alone, in *South Canara*, there was a material increase in the number of cases prosecuted before Magistrates: these, as already noticed, consisted principally of cases of unauthorized "kumri" cultivation.

The percentage of acquittals shows a most satisfactory decrease in all circles and for the year only amounted to 16·7 for the whole Presidency. Considering that over 4,000 cases were taken into court, the result must be considered very creditable to District Forest-officers. The precentage of acquittals was high in the *Kistna*, *Gódávari* and *Kurnool* districts, though even these districts show a considerable decrease when compared with the previous year. In the first district the leniency of the magistracy is said to have been the cause; in *Gódávari*, several acquittals were due to neglect to institute proper inquiry by a Ranger. In *Kurnool*, Magistrates dismissed several cases under the impression that the *prosecution* had to *prove* that wood found in possession of parties was either cut or removed from a Government forest. A High Court ruling upon the subject has since issued which should prevent a recurrence.

In the Madakasíra reserve, *Anantapur* district, wholesale fellings of rela (*Cassia fistula*) were discovered. The matter is under enquiry and the Range officer in charge has been suspended. A detailed report has been called for by the Board. In *Kistna*, in the Guntúr working circle, systematic stealing of babul was started, some of the offenders have been prosecuted. In *Salem*, a person was fined Rs. 200 for being in possession of a quantity of sandalwood for which he could not account. In *Madura*, a Ranger and tannadar were assaulted after detection of illicit felling, the offenders were convicted; there was also another case of wounding a subordinate and forcibly rescuing cattle. In *Cuddapah*, two large seizures of red sanders were made, but the offenders were not detected. When inspecting this district in the early party of 1897, the Conservator found that fellings of red sanders had been going on for some time on a very extensive scale. It was very evident that the subordinates had either connived at the fellings or had grossly neglected their duties. There is no doubt that the establishment was too weak to actively interfere, but the Range officers had never reported the fellings. It is believed the wood was exported to Madras under cover of zemindari permits. Mr. Batchelor, Assistant Conservator, with an increased staff from other parts of the district, has since been specially deputed to look after this and transit rules have been submitted for sanction. The District Forest-officer has been asked to submit a special report upon the subject, upon receipt of which the conduct of the Range officers will be dealt with. The people engaged in the work are a lawless lot. One forest guard, who had reported two persons for cutting red sanders, was stabbed a few nights afterwards and has since died. A Forester, while attempting to arrest some red sanders thieves, had some stuff thrown in his eyes, which seriously affected them; he was eventually compelled to take leave.

26. Rewards to an extent of Rs. 2,696 were paid during the year to informers and forest subordinates, and Rs. 615 to subordinates of the Abkári department. The Board is glad to observe that on only rare occasions forest subordinates receive rewards. The detection of forest offences is part of their regular work and it would be a mistake to encourage a practice of rewarding men for performance of duties for which they are paid. The following are the statements called for by the Government of India in letter No. 3268, Revenue, dated 29th June 1897. In several districts no return has been made of undetected cases; in future these should be shown.

## No. I.

| Division or Circle. | Cases taken into Court. | | | | Cases compounded. | | | | Cases undetected or withdrawn. | | | | Total cases. | | | | Grand total of cases. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Injury to forests by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Injury to forests by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Injury to forests by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Injury to forests by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| *Northern Circle.* | | | | | | | | | | | | | | | | | |
| Ganjám .. .. .. | .. | 54 | 34 | 12 | .. | 79 | 8 | 4 | .. | 14 | 2 | 1 | .. | 147 | 44 | 17 | 208 |
| Vizagapatam .. .. | .. | 179 | .. | .. | .. | 86 | 40 | 11 | .. | 49 | 10 | .. | .. | 314 | 50 | 11 | 375 |
| Gódávari .. .. | 2 | 100 | 13 | 9 | 1 | 127 | 14 | 109 | 3 | 27 | .. | .. | 6 | 254 | 27 | 118 | 405 |
| Kistna .. .. .. | 3 | 95 | 147 | 30 | .. | 204 | 180 | 20 | 6 | 61 | 184 | 10 | 9 | 360 | 511 | 60 | 940 |
| Kurnool .. .. .. | 1 | 237 | 124 | 10 | .. | 183 | 66 | 30 | .. | 93 | 10 | 10 | 1 | 513 | 200 | 50 | 764 |
| Bellary .. .. .. | .. | 16 | 18 | 5 | .. | 298 | 49 | 114 | 14 | 14 | 17 | 1 | 14 | 328 | 84 | 120 | 546 |
| Anantapur .. .. | 4 | 39 | 46 | 3 | .. | 69 | 49 | 1 | .. | 11 | 7 | 2 | 4 | 119 | 102 | 6 | 231 |
| Total, Northern Circle. | 10 | 720 | 382 | 69 | 1 | 1,046 | 406 | 289 | 23 | 269 | 230 | 24 | 34 | 2,035 | 1,018 | 382 | 3,469 |
| *Central Circle.* | | | | | | | | | | | | | | | | | |
| Cuddapah .. .. | 6 | 133 | 295 | 22 | .. | 75 | 36 | 3 | .. | 39 | 63 | .. | 6 | 247 | 394 | 25 | 672 |
| Nellore .. .. .. | .. | 35 | 48 | 8 | .. | 23 | 5 | .. | .. | 4 | 7 | 2 | .. | 62 | 60 | 10 | 132 |
| Chingleput .. .. | .. | 31 | 25 | 5 | .. | 141 | 120 | 16 | .. | 68 | 28 | 6 | .. | 240 | 173 | 27 | 440 |
| North Arcot .. .. | 1 | 53 | 44 | 8 | .. | 352 | 404 | 29 | .. | 17 | 18 | 4 | 1 | 422 | 466 | 41 | 930 |
| South Arcot .. .. | 1 | 215 | 89 | 31 | .. | 675 | 395 | 45 | 11 | 16 | 100 | 11 | 12 | 906 | 584 | 87 | 1,589 |
| Salem .. .. .. | 1 | 89 | 150 | 14 | 1 | 332 | 306 | 8 | 13 | 7 | 80 | .. | 15 | 428 | 536 | 22 | 1,001 |
| Trichinopoly .. .. | .. | 55 | 141 | 8 | .. | 97 | 172 | .. | .. | 12 | 191 | 7 | .. | 164 | 504 | 15 | 683 |
| Tanjore .. .. .. | .. | 2 | 14 | 2 | .. | 13 | 7 | 1 | .. | 6 | 17 | .. | .. | 21 | 38 | 3 | 62 |
| Total, Central Circle. | 9 | 613 | 806 | 98 | 1 | 1,708 | 1,445 | 102 | 24 | 169 | 504 | 30 | 34 | 2,490 | 2,755 | 230 | 5,509 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | |
| South Canara .. .. | 10 | 251 | 41 | 288 | .. | 109 | .. | 85 | 14 | 56 | .. | 56 | 24 | 416 | 41 | 429 | 910 |
| North Malabar .. .. | .. | .. | 1 | 7 | .. | .. | 3 | 7 | .. | .. | .. | 7 | .. | .. | 4 | 21 | 25 |
| South Malabar .. .. | .. | 6 | .. | 4 | .. | 1 | .. | .. | .. | 1 | .. | 3 | .. | 8 | .. | 7 | 15 |
| The Nilgiris .. .. | 1 | 20 | 33 | 11 | .. | 18 | 13 | 1 | 6 | .. | .. | .. | 7 | 38 | 46 | 12 | 103 |
| North Coimbatore .. | .. | 59 | 73 | 24 | .. | 41 | 52 | 3 | .. | .. | 48 | .. | .. | 100 | 173 | 27 | 300 |
| South Coimbatore .. | .. | 17 | 9 | 7 | .. | 45 | 84 | 3 | .. | 5 | 2 | 4 | .. | 67 | 95 | 14 | 176 |
| Madura .. .. .. | Not reported. | | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 519 |
| Tinnevelly .. .. | 1 | 11 | 10 | 3 | .. | 176 | 129 | 4 | .. | 46 | 32 | 4 | 1 | 233 | 171 | 11 | 416 |
| Total, Southern Circle. | 12 | 364 | 167 | 344 | .. | 390 | 281 | 103 | 20 | 108 | 82 | 74 | 32 | 832 | 530 | 521 | 2,464 |
| Grand Total. | 31 | 1,697 | 1,355 | 511 | 2 | 3,144 | 2,132 | 494 | 67 | 546 | 816 | 128 | 100 | 5,357 | 4,303 | 1,133 | 11,442 |

## No. II.

| Division or Circle. | Details of prosecutions for offences by fire. | | | | | |
|---|---|---|---|---|---|---|
| | Serial No. of fire. | Acres burnt. | Character of offence (whether careless or intentional). | Whether acquitted or convicted. | Section of Law under which convicted. | Amount of punishment. |
| *Northern Circle.* | | | | | | |
| Gódávari .. .. .. | 1 | 100 | Careless .. .. .. .. | Convicted .. .. | Section 21 of the Forest Act .. | One Rupee each. |
| | 2 | .. | Intentional .. .. .. .. | Do. .. .. | ,, 21 of the Forest Act .. | Nine Rupees. |
| Kistna .. .. .. | 1 | 14 sq. yds. | Do. .. .. .. .. | Do. .. .. | Section 21 of the Forest Act .. | Rupees 10 each. |
| | 2 | 3 acres. | Do. .. .. .. .. | Do. .. .. | ,, 26 of the Forest Act .. | Rigorous imprisonment for 15 days. |
| | 3 | 0·10 acres. | Do. .. .. .. .. | Do. .. .. | ,, 21 of the Forest Act .. | Rupees 2. |
| Kurnool .. .. .. | 1 | 1 square chain. | Do. .. .. .. .. | Acquitted .. .. | .... | .... |
| Anantapur .. .. | 1 | .. | Careless .. .. .. .. | Do. .. .. | .... | .... |
| | 2 | .. | Do. .. .. .. .. | Convicted .. .. | Section 21 of the Forest Act .. | Six accused fined Rs. 3 each in default to suffer one week's simple imprisonment. |
| | 3 | .. | Do. .. .. .. .. | Do. .. .. | Rules under section 26 of Forest Act .. | Fined Rs. 5 in default one week's simple imprisonment. |
| | 4 | 50 acres. | Do. .. .. .. .. | Do. .. .. | Section 21 of the Forest Act .. | Fined Rs. 8 in default one week's simple imprisonment. |
| Cuddapah .. .. .. | 1 | .. | Intentional .. .. .. .. | Case pending .. | .... | .... |
| | 2 | .. | Do. .. .. .. .. | Convicted .. .. | .... | Two weeks' rigorous imprisonment. |
| | 3 | .. | Careless .. .. .. .. | Acquitted .. .. | .... | .... |
| | 4 | .. | Intentional .. .. .. .. | Convicted .. .. | .... | Fifteen days' simple imprisonment. |
| | 5 | .. | Careless .. .. .. .. | Acquitted .. .. | .... | .... |
| | 6 | .. | Do. .. .. .. .. | Withdrawn .. | .... | .... |
| North Arcot .. .. | 1 | 200 acres. | Careless .. .. .. .. | Convicted .. .. | Section 21 of the Forest Act .. | Twenty-five rupees. |
| South Arcot .. .. | 1 | 40 ,, | Intentional .. .. .. .. | Case pending .. | .... | .... |
| Salem .. .. .. | 1 | 80 ,, | Do. .. .. .. .. | Convicted .. .. | Section 21 of the Forest Act .. | Five were fined Rs. 50 each and four weeks' rigorous imprisonment in default to undergo further rigorous imprisonment of two weeks each. Another fined Rs. 50 and six weeks' rigorous imprisonment in default two weeks. |
| South Canara .. .. | 1 | ¼ acre. | Careless .. .. .. .. | Do. .. .. | For Rules 15 and 26 .. .. .. | Rupees 9. |
| | 2 | 5 acres. | Do. .. .. .. .. | Do. .. .. | Do. .. | Rupees 25. |
| | 3 | 35 ,, | Intentional .. .. .. .. | Do. .. .. | Section 21 .. .. .. .. | Ten days' rigorous imprisonment. |
| | 4 | 5 ,, | Do. .. .. .. .. | Do. .. .. | For Rules 11 and 15 .. .. .. | Do. do. |
| | 5 | 50 ,, | Do. .. .. .. .. | Acquitted .. .. | .... | .... |
| | 6–10 | 197 ,, | Do. .. .. .. .. | Cases pending .. | .... | .... |
| The Nilgiris .. .. | 1 | ½ of an acre. | Do. .. .. .. .. | Convicted .. .. | 21 (*b*) of the Forest Act .. .. | Rupees 10 or to undergo 10 days' simple imprisonment. |
| Madura .. .. .. | 1 | No information. | Do. .. .. .. .. | Do. .. .. | Do. .. .. | Rupees 10. |
| Tinnevelly .. .. | 1 | 3 acres. | Do. .. .. .. .. | Acquitted .. .. | .... | .... |

## No. III.

| Division or Circle. | A.—Fire caused by accidentor through carelessness in burning fire lines. | | B.—Fires entering the forests by crossing exterior fire traces. | | C.—Fires beginning inside the reserve or fire traced areas. Owing to carelessness or accident. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | By workmen employed in the forests, by purchasers of forest produce and by Yah cutters. | | By villagers, travellers, &c., passing through the forests. | | By railway engines. | | By lightning or by fire balloons. | |
| | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| *Northern Circle.* | | | | | | | | | | | | |
| Ganjám | .. | .. | .. | .. | .. | .. | 15 | 635 | .. | .. | .. | .. |
| Vizagapatam * | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Gódávari | .. | .. | 2 | 250 | .. | .. | 11 | 1,643 | .. | .. | .. | .. |
| Kistna | .. | .. | .. | .. | .. | .. | 1 | 3 | .. | .. | .. | .. |
| Kurnool | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bellary | 2 | 489 | .. | .. | 1 | 400 | 3 | 2 | .. | .. | .. | .. |
| Anantapur | .. | .. | .. | .. | .. | .. | 1 | 500 | .. | .. | .. | .. |
| Total, Northern Circle .. | 2 | 489 | 2 | 250 | 1 | 400 | 31 | 2,783 | .. | .. | .. | .. |
| *Central Circle.* | | | | | | | | | | | | |
| Cuddapah | .. | .. | 23 | 2,919 | .. | .. | .. | .. | .. | .. | .. | .. |
| Nellore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Chingleput | .. | .. | 1 | 400 | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | 1 | 2 | 5 | 178 | .. | .. | 1 | 200 | .. | .. | .. | .. |
| South Arcot | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Salem | .. | .. | .. | .. | .. | .. | 1 | 500 | .. | .. | .. | .. |
| Trichinopoly | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total, Central Circle .. | 1 | 2 | 29 | 3,497 | .. | .. | 3 | 700 | .. | .. | .. | .. |
| *Southern Circle.* | | | | | | | | | | | | |
| South Canara | .. | .. | .. | .. | .. | .. | 3 | 106 | .. | .. | .. | .. |
| North Malabar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Malabar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| The Nilgiris | .. | .. | 2 | 1,640 | 1 | 80 | .. | .. | .. | .. | .. | .. |
| North Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Madura | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. |
| Tinnevelly | .. | .. | 12 | Not reported. | 4 | Not reported. | .. | .. | .. | .. | 1 | Not reported. |
| Total, Southern Circle .. | .. | .. | 14 | 1,640 | 5 | 80 | 3 | 106 | .. | .. | 2 | .. |
| Grand Total, Presidency .. | 3 | 491 | 45 | 5,387 | 6 | 480 | 37 | 3,589 | .. | .. | 2 | .. |

* Details not reported.

## No. III—*cont.*

| Division or Circle. | C.—Fires beginning inside the reserve or fire traced areas—*cont.* | | | | | | | | Total A, B and C. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | By intentional firing. | | | | | | | | Causes unknown. | | | |
| | In order to obtain new grass. | | In order to turn out game or to reduce cover. | | Maliciously fired. | | Total. | | | | | |
| | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. | Number of fires. | Area burnt in acres. |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| *Northern Circle.* | | | | | | | | | | | | |
| Ganjám | 12 | 1,365 | 5 | 420 | .. | .. | 17 | 1,785 | 32 | 1,488 | 64 | 3,908 |
| Vizagapatam * | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3,700 |
| Gódávari | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 92 | 15 | 1,985 |
| Kistna | .. | .. | 3 | 3 | 1 | .. | 4 | 3 | 4 | 154 | 9 | 160 |
| Kurnool | .. | .. | .. | .. | 1 | .. | 1 | .. | 10 | 2,481 | 11 | 2,481 |
| Bellary | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 263 | 14 | 1,154 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 500 |
| Total, Northern Circle | 12 | 1,365 | 8 | 423 | 2 | .. | 22 | 1,788 | 56 | 4,478 | 114 | 13,888 |
| *Central Circle.* | | | | | | | | | | | | |
| Cuddapah | 2 | 530 | .. | .. | 1 | 69 | 3 | 599 | 84 | 8,992 | 110 | 12,510 |
| Nellore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Chingleput | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 400 |
| North Arcot | 9 | 2,323 | 4 | 605 | 2 | 191 | 15 | 3,119 | 33 | 3,162 | 55 | 6,661 |
| South Arcot | .. | .. | .. | .. | 1 | 40 | 1 | 40 | 11 | 228 | 12 | 268 |
| Salem | .. | .. | .. | .. | .. | .. | .. | .. | 13 | 1,378 | 14 | 2,378 |
| Trichinopoly | 1 | 100 | .. | .. | .. | .. | 1 | 100 | .. | .. | 2 | 100 |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total, Central Circle | 12 | 2,953 | 4 | 605 | 4 | 300 | 20 | 3,858 | 141 | 14,260 | 194 | 22,317 |
| *Southern Circle.* | | | | | | | | | | | | |
| South Canara | 5 | 151 | 1 | 96 | 2 | 40 | 8 | 287 | 13 | 740 | 24 | 1,133 |
| North Malabar | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 100 | 1 | 100 |
| South Malabar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| The Nilgiris | 2 | 820 | 1 | 1,285 | 2 | 1 | 5 | 2,106 | .. | .. | 8 | † 3,826 |
| North Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South Coimbatore | .. | .. | .. | .. | .. | .. | .. | .. | 9 | 2,257 | 9 | 2,257 |
| Madura | .. | .. | .. | .. | 3 | 420 | 3 | 420 | 31 | 1,042 | 35 | 1,462 |
| Tinnevelly | 3 | Not reported. | 1 | Not reported. | 26 | Not reported. | 30 | Not reported. | 4 | Not reported. | 51 | 5,335 |
| Total, Southern Circle | 10 | 971 | 3 | 1,381 | 33 | 461 | 46 | 2,813 | 58 | 4,139 | 128 | 14,113 |
| Grand Total, Presidency | 34 | 5,289 | 15 | 2,409 | 39 | 761 | 88 | 8,459 | 255 | 22,877 | 436 | 50,318 |

* Details not reported.

† The Collector has not explained the difference between this figure and that given by him in Form No. 51.

## (2) Protection from fire.

27. The following abstract exhibits the results of fire-protection :—

*Fire-protection.*

| Circles. | During 1895-96. | | | During 1896-97. | | |
|---|---|---|---|---|---|---|
| | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. | Area attempted in square miles. | Percentage of area attempted which escaped fire. | Average cost per square mile. |
| | | | Rs. A. P. | | | Rs. A. P. |
| Northern .. | 1,198 | 89·5 | 11 9 4 | 1,158 | 98 | 9 14 1 |
| Central .. | 2,517 | 96 | 4 15 5 | 2,362 | 98·5 | 5 14 7 |
| Southern .. | 1,879 | 93 | 8 7 1 | 1,843 | 99 | 7 8 11 |
| Total .. | 5,594 | 94 | 7 8 10 | 5,363 | 98·6 | 7 5 5 |

There has been no change in the system of fire-protection which was more or less the same as that reported last year to prevail in the different districts. According to form No. 51, the net result of the year's operations shows a decrease of 231 square miles in the area attempted and of Rs. 2,900 in the expenditure incurred, as compared with the figures of the preceding year. Taking the Circles individually, the area attempted to be protected in each was slightly less; the average cost per square mile was higher in the *Central Circle*, less in the other two Circles and for the Presidency.

The increase in the *Central Circle* was due to the adoption of special measures for protection of part of the Lankamalai hills in Cuddapah. Attempts to keep out fires from the whole range, 165 square miles, by means of patrols and a 12-feet cleared line have annually failed. This year the attempt was abandoned and a block (7,000 acres in extent) was selected, a 60-feet trace cleared round it and the work of the watchers concentrated upon this. The experiment proved a success, 30 acres only were burnt while clearing the traces and the work will be gradually extended. In the *Northern Circle*, the cost of protection was considerably less in *Bellary* and *Anantapur*. The reduction in *Bellary* was consequent upon the abandonment of interior fire lines on the western slope of Ramandrug and of some of the steep interior lines in the Donimalai and North-Eastern ranges. It was found advisable to re-align some of the interior cross-lines and to devote a portion of the savings to widening the exterior lines and opening bridle-paths. The decrease in *Anantapur* is ascribed to the absence of grass owing to the drought and also to the consequent saving in the cost of fire-tracing and establishment. The variations in the *Southern Circle* are spread over most of the districts and being small call for no remarks.

28. The percentage of the area burnt to the area attempted is reported to have been 2 in the *Northern*, 1·5 in the *Central* and 1 in the *Southern* Circles against 10·5, 4 and 7, respectively, in the year preceding. These figures are approximate. Perfectly accurate returns will not be furnished until the personnel of a considerable part of the executive establishment has improved and until accurate maps are at the disposal of District Forest-officers upon which the fire-protected areas can be correctly shown. In districts surveyed by the Survey of India there will be no difficulty as regards the maps and next year's report should show what steps have been taken in this direction. Compared with the previous year the results are very satisfactory. The success in the Central Circle is, in the Conservator's opinion, due in a great measure to the action of the ryots themselves. During the hot weather when, as a rule, fires are most prevalent, this year they were the exception. The originator of most fires (although rarely proved) is undoubtedly the herdsman, his object being the destruction of the dry woody grass-stalks and the early production of young green shoots. The drought and consequent fear that even the dry grass would fail acted as a deterrent. In 1891 during the drought a similar absence of fires was observed.

The percentages for the several districts as compared with those for the preceding year are shown below :—

| Northern Circle. | | | Central Circle. | | | Southern Circle. | | |
|---|---|---|---|---|---|---|---|---|
| Districts. | Percentage of fires to area attempted in 1895-96. | Percentage of fires to area attempted in 1896-97. | Districts. | Percentage of fires to area attempted in 1895-96. | Percentage of fires to area attempted in 1896-97. | Districts. | Percentage of fires to area attempted in 1895-96. | Percentage of fires to area attempted in 1896-97. |
| Ganjám .. | 5 | 3 | Cuddapah .. | 7 | 3 | South Canara .. | 1 | 2 |
| Vizagapatam .. | 13 | 12 | Nellore .. | 2 | .. | North Malabar .. | 66 | 0·15 |
| Gódávari .. | 3 | 1 | Chingleput .. | 2 | 2 | South do. .. | .. | .. |
| Kistna .. | 15 | .. | North Arcot .. | 3 | 1 | The Nilgiris .. | 1 | 2 |
| Kurnool .. | 23 | 8 | South do. .. | 2 | 0·2 | North Coimbatore. | .. | .. |
| Bellary .. | 13 | 2 | Salem .. | 3 | 5 | South do. | 1 | 0·5 |
| Anantapur .. | 8 | 4 | Trichinopoly .. | .. | .. | Madura .. | 4 | 0·6 |
| | | | Tanjore .. | .. | .. | Tinnevelly .. | 2 | 2 |
| | 10·5 | 2 | | 4 | 1·5 | | 7 | 1 |

Early rains contributed to the success in *Ganjám*, *Madura*, *Coimbatore* (*South*) and *Malabar* (*North* and *South*). Compared with the results of last year, fire-protection in *Vizagapatam* may be regarded as satisfactory. Fire occurred in only one reserve in the Golgonda taluk and burnt down 3,700 acres. The good result in *Gódávari* is attributed to the entertainment of the fire-patrol establishment one month earlier than usual, while in *Kistna* protection is said to have been assisted by the drought. The small percentage in *Kurnool* and *Anantapur* was due to the dearth of grass and in the former district also to larger removals of such grass as there was. In *Kurnool* as well as in *Vizagapatam* and *North Arcot* it is also suggested that graziers abstained from intentional fires anticipating scarcity of fodder. The favourable result in *Bellary* is ascribed to the inducements held out to the Reddis (village heads) in the shape of rewards for preventing and extinguishing fires and to the grazing down of the grass outside reserves. There were two cases of fires in *Chingleput*, one of which is reported to have originated in the Kálahasti zemin forests. The area burnt amounted to 400 acres. In *North Arcot* there was a fire in one important reserve (Musilamadugu) in which 135 acres were burnt. The fire was due to incendiarism and the block has been temporarily closed to grazing and cutting. There were twelve fires in three blocks in *South Arcot* which burnt over an aggregate area of 268 acres. They are all ascribed to incendiarism. The ryots of Paramanandal have been refused permits for grazing for one year for having refused to render assistance in extinguishing a fire which occurred in the reserve of that name. The prohibition will be withdrawn if it is found the grazing is necessary ; and it is hoped the temporary suspension of the privilege will prevent a recurrence. The decrease in the percentage which escaped fire in *Salem* was due to the exceptionally large area burnt in the Hosúr taluk ; of the total of 2,378 acres burnt, the fires in this taluk account for 2,120 acres. They were principally caused by incendiaries. There were two fires in *Trichinopoly*, the damage reported was very trivial. In *Tinnevelly* 168 acres of the protected area were burnt. There were numerous fires in the forests not under special protection and they were caused either by the graziers or dismissed subordinates. In *South Canara* 1,133 acres were burnt, the worst fires being in the Munjimale and the Chinkramale reserves. The open forests are reported to be mostly free from fire, being protected by the belts of ever-green. Collectors' reports furnish little information regarding the damage caused to the forests by the various fires.

Throughout the Presidency the extent of reserved forests, not specially protected, which escape fire annually is very considerable. Very few, if any, of the scrub reserves in the plains are burnt. As a rule they are so heavily grazed, that a fire, if started, would not spread.

### (3) Regulation of grazing and protection from cattle.

29. The total area of reserved forests and reserved lands is 18,907 square miles; of these 1,767 square miles were closed to all grazing—Northern Circle 311, Central 243, and Southern 1,213 square miles. The comparatively large area closed in the

Southern Circle includes 328 square miles in *South Malabar*. The private forests are very extensive and there is no demand for grazing in the forests under Government. In *South Coimbatore* the area closed to grazing is very large and proposals are under consideration to throw open additional lands. In the Northern and Central Circles 661 and 78 square miles, respectively, were open to all animals. Sheep were admitted generally except to the specially-closed forests. In the Northern Circle goats were allowed to browse in 236 square miles in the *Kistna* district and in 151 in *Bellary*; in the Central Circle small areas were opened in *Cuddapah*, *Salem* and *Chingleput*. In *North Arcot* 70 square miles were made available, and in *Nellore* 20 square miles were reserved for goats alone.

Licenses were issued to the following extent:—

| | Buffaloes and oxen. | Sheep and goats. |
|---|---|---|
| Northern Circle ... ... ... ... ... | 446,546 | 418,893 |
| Central do. ... ... ... ... ... | 581,704 | 602,804 |
| Southern do. ... ... ... ... ... | 287,131 | Sheep. 74,908 |
| Total ... | 1,315,381 | 1,096,605 |

The Malayalis in the hills in the *North* and *South Arcot*, *Salem* and *Trichinopoly* districts are allowed to graze their cattle free. It is believed this privilege is in places abused and that cattle from the plains are brought up. In addition reserved forests in the *Kurnool*, *Bellary*, *Anantapur*, *Ganjám*, *Vizagapatam*, *Gódávari* and *Cuddapah* districts were thrown open to free grazing as soon as the necessity for it became apparent. The privilege was fully availed of; and Collectors have been asked when the exemption is withdrawn to report the approximate numbers of cattle which obtained free ingress, also whether the concession had any marked effect upon these animals. When grass failed, hacking of branches was indulged in. This of course was anticipated. It is impossible to compare the number of cattle, &c., admitted under licenses during the year with the previous one. The figures for 1895–96 were incomplete and for the year under report are not absolutely correct owing to absence of clear information in some district reports. Collectors will be directed to see that future reports quote separately the number of buffaloes, oxen, sheep and goats.

### (c) *Improvement of forest growth.*

#### (1) Natural reproduction.

30. The year was unfavourable to natural reproduction. It was particularly so in the districts of the Northern Circle owing to the drought and to the damage to the reserves by cattle and grass cutters. Towards the close of the year the drought in many of the Northern districts including Cuddapah in the Central Circle increased in intensity necessitating throwing open the forest reserves to free grazing and free removal of grass. The result has been that trees were lopped and seedlings destroyed, but it was inevitable. The following is a *resumé* of the district reports under this head:—

**Northern Circle.**

The natural reproduction of sal in *Ganjám* as usual leaves nothing to be desired. There have been good coppice shoots of *Terminalia tomentosa* and *Chloroxylon swietenia* (satinwood). In old *podus* (abandoned cultivation) in the Peddapur reserves in *Gódávari* coppice from *Terminalia tomentosa* and *Chloroxylon swietenia* is very promising. In *Kistna* the coppicing of *Acacia Arabica* (Babul) in the Guntúr Babul working circle was a failure, but has been redeemed by an abundant crop of seedlings. It is reported that *Hardwickia binata* unlike most trees developes more slowly from coppice than from seedlings; plants of five years being 1·39 inches in diameter from coppice, and 2·46 inches in diameter from seedlings. There was a fairly dense crop of seedlings of this species in the Bollapalle reserve. In Bellary and Anantapur *Hardwickia* germinated freely in some reserves but the removal of the projecting grass and the irruption of cattle destroyed all traces of the seedlings.

## Central Circle.

In *Nellore* a certain amount of reproduction of red sanders (*Pterocarpus santalinus*) Yelama (*Anogeissus latifolia*) and Yepi (*Hardwickia binata*) was found in the higher Veligondas and of Yelama in the plains. The area cut over in Survepalli has coppiced well. In the Srihari-kóta forests the growth from coppice of the species referred to in the last report is good, varying in height from 3 to 8 feet. In the year under report another plot of 8 acres was clean felled. In *Cuddapah* regeneration from seed was very poor owing to the drought. Red sanders (*Pterocarpus santalinus*) suffered from the free grazing, as the leaves are used for fodder. The reproduction of *Anogeissus latifolia* and *Pongamia glabra* appears to have been least affected by the drought. The experimental areas referred to in the last report were cut over in Thanakonda reserve and in Kodur reserved lands; the result will be reported later. In *Chingleput* there was little or no reproduction from seed except in areas containing dense growth of thorny bushes, which had practically excluded cattle. Regeneration from coppice in coupes protected from cattle continues to be good. In *North Arcot* the year has been a bad one for reproduction from seed and coppice owing to deficiency of rainfall during the past three seasons. The statement made last year that *Anogeissus* suffered more than satinwood (*Chloroxylon swietenia*) in fire-burnt areas was a clerical error. The fact is exactly the other way. It is reported that in consequence of unlimited grazing reducing the average grazing area per animal to about 2 acres in most localities, development of seedlings is practically impossible. In *South Arcot* coppice growth in the coupes is as usual good. On the Tenmalai hills a fair sprinkling of sandalwood seedlings is found in places unfrequented by cattle. In the plantations on the coast of the Cuddalore range, self-sown seedlings of casuarina have been collected and transplanted into nursery beds. They are thriving. In the "relief camp tope" of the Tindivanam range, self-sown seedlings of *Acacia ferruginea* and *Ceara rubber* are found in fair abundance. In the Vriddháchalam range reproduction from seed of *Acacia Arabica*, *sundra*, and *leucophlœa* and *Cassia fistula* is reported to be abundant. Reproduction from coppice in *Salem* was fair. The absence of sandalwood seedlings has again been noticed. In *Trichinopoly* reproduction from seedlings and coppice shoots was, as usual, satisfactory in the Cauvery padugai plantation. In *Tanjore* casuarina has coppiced on the coast in the plantation at Tirumalaivassal but the coppice growth after four years will not compare with plants grown from seed and the final crop is not likely to compare favourably with the yield from artificial planting.

## Southern Circle.

Natural reproduction under coppice in *Tinnevelly* is generally fair and particularly good in the Kalakad and Aiyanarkoil working circles. Regeneration of teak as well as vengai (*Pterocarpus marsupium*) is fairly satisfactory on the lower slopes of the Sankaranáyinárkóyil and Tenkási taluks; that of Kongu (*Hopea Wightiana* and *Hopea parviflora*) is promising in the ever-green forests of the Ambásamudram range. In *Madura* regeneration from seed in fire-protected areas and from coppice in the coupes is good. About 80 per cent. of coppiced trees are believed to throw up shoots. The average annual rate of growth of coppice shoots is between 3 and 4 feet. In *North Coimbatore* seedlings of teak in the upland taluks are reported to be rarely found while those of Vengai (*Pterocarpus marsupium*), blackwood (*Dalbergia latifolia*), *Terminalia Hardwickia* and *Anogeissus* are very general and likely to develop with fire-protection. Reproduction of sandalwood is good especially in fire-protected areas. In the plain taluks *Albizzia amara* and *Acacia leucophlœa* are said to be reproducing themselves freely though hampered by grazing. In *South Coimbatore* it is reported that the seeds of teak (*Tectona grandis*) and rosewood in the Tunacadavu range germinate freely, but the former disappears after a few years, being crowded out of existence by the heavy shading *Terminalias* and other trees. The Conservator, Southern Circle, remarks that "the most promising young teak has sprung up on land completely cleared of forest growth." On the Punachi slopes Vengai (*Pterocarpus marsupium*) is promising. The coppice regrowth in Chinnar and Aiyarangal is luxuriant and that in Sholakarai is described as regular though not as good as was anticipated when the working plan was framed. As regards the teak forests of the Anamalais, the Collector of Coimbatore has reported that Mr. Popert's suggestions as to the future method of treatment of the forests, with a view to promote the regeneration of teak will be carried out. On the Nilgiris the reproduction of the Blue Gum by stool shoots is reported to be as vigorous as ever, the yield in each rotation showing no diminution in volume though there is a certain mortality among the stumps. On the southern slopes, sandalwood seedlings are promising. Teak in the Moyar tracts is growing vigorously as also *Anogeissus*, sandalwood and vengai. In the Mudumalai and Benne forests natural reproduction is what it has been for years past. No improvement can be expected until the forests have undergone a regular course of treatment on the lines indicated by Mr. Popert, which have been accepted by the Board of Revenue but not yet begun. In *North Malabar* there is a fair crop of teak seedlings, but it is doubtful whether they will escape the usual fires which are certain to occur sooner or later. Besides reproduction from seed, there is a very fair growth of young teak from stumps of old trees. The growth of these is being assisted by removing all but one of the shoots in each group. Blackwood (*Dalbergia latifolia*) and Vengai (*Pterocarpus marsupium*) reproduce freely; the former particularly from root suckers. Jack (*Artocarpus integrifolia*) also germinates but young plants are seldom found far

from the parent tree. Other important species reported are *Terminalia tomentosa* and *paniculata* and *Lagerstræmia microcarpa* and *Floss-Reginæ*. A number of seedlings of *Bambusa arundinacea* is coming up. In *South Malabar* Irul (*Xylia dolabriformis*) reproduces itself from seed on laterite soils to the exclusion of almost all other trees especially in the Nilambur range. There is a vigorous growth of *Terminalia tomentosa* in the Amarambalam range on low-lying swampy soil. There is also a fair number of teak (*Tectona grandis*) and benteak (*Lagerstræmia microcarpa*) seedlings in the Karimpoya and Nallikutta blocks. The coppice regrowth in *South Canara* is satisfactory. The catechu is now reproducing itself by seedlings as well as shoots.

## (2) Artificial reproduction, plantations and cultural operations.

31. The area under plantations, topes and cultural operations together with the cost incurred thereon during the year under report is given in form Nos. 53 and 54.

The following is a summary of the year's work :—

In the Agusti Nowgam casuarina plantation in *Ganjám*, 63 acres were planted up with 75,632 plants, bringing the total up to 3,34,325 plants. The expenditure incurred was Rs. 9,484 against Rs. 5,598 in 1895–96. The large increase in the expenditure was due to failure of the rains, which not only rendered it necessary to water the plants of the two previous years to save them from perishing but also necessitated the watering to be commenced much earlier than usual. In *Góddvari* there are two casuarina plantations and some 20,000 plants were put out during the year. There was a large number of casualties among the older plants owing to the drought, which have been replaced. In *Kistna* a new departure was made in a casuarina plantation in Bápatla, which had not been very successful, by trying *Dalbergia sissoo*, *Pithecolobium dulce*, *Albizzia lebbeck*, tamarind and other trees placed further apart than usual, some 20 feet. The plants put down in September—November and in June appear exceedingly healthy. One hundred and fifty acres were planted in Bápatla and 25 acres in Karlapalam at Rs. 6 per acre, whereas 22 acres in Gopuvanipalem reserve planted close after the old fashion cost Rs. 41 an acre. Sissoo is relied on to cover the ground from its habit of throwing up root-suckers after 10 years. Nurseries are well stocked. In *Bellary* 10 acres were planted with *Hardwickia binata*, *Tectona grandis* and *Albizzia lebbek*. The expenditure incurred in planting and watering this area including the watering of the area planted in previous years was Rs. 642. One hundred and thirty-four acres were chosen in the alluvial soil adjoining the Toranagallu reserve and 15 acres of this were planted during the year.

In *Nellore* there was no addition to the plantations during the year. The younger plantations of previous years' planting had still to be watered. There was more than the usual number of deaths from *fungus*. Allipuram is not suitable for date. The cashew on the other hand are doing well. In *North Arcot* bamboo transplanting in Chittoor and Vellore ranges was a failure. The prolonged drought was fatal. Red sanders seedlings have succeeded. The two and three year old casuarina plantations are looking fairly healthy, but the death of 4 and 5 year old saplings continues and further planting except for the purpose of filling up blanks has been abandoned. In *South Arcot* 68 acres were planted with casuarina in different localities at an average cost of Rs. 9 per acre against Rs. 13 in the previous year. The average cost represents the cost of planting and watering, including nursery and transplanting charges. The plants put out in the previous years were also watered wherever necessary. The casuarina seedlings obtained from the Tenasserim seeds and referred to in the last report as having been put out in the Shonankuppam plantation are more vigorous and thriving better than those from the local seeds. With the object of meeting domestic and agricultural requirements planting of bamboos in regular patches was undertaken during the year in most of the ranges. Except in Cuddalore the plants in other ranges are reported to be generally in good condition. Several thousand seedlings were put out at a very trifling cost. The experiment was made at the instance of the Collector and if successful will prove invaluable to the neighbouring villages as well as a source of revenue. In *Trichinopoly* the system of giving on short lease small areas of padugai land to ryots on condition of their planting them with casuarina was continued in the Trichinopoly range with little success and will be discontinued. In *Tanjore* an area of 55 acres was planted in Tirumulavásal at varying distances. The plants are doing well except in Neidavasal where the number of failures was about 50 per cent. of the plants put out. The plantations of last year were also maintained.

In Tinnevelly no regular plantations were taken in hand though a nursery for the Melavittam plantation was formed. Some palmyra seeds were sown in the Kudiraimalai Terai and most have germinated. The only two plantations in *Madura* are (1) a small teak plantation in Vannathiparai and (2) the blue gum plantation in Kodaikánal. Nothing was done in the teak plantation; it was considered inexpedient to restock the area owing to the casualties that happen to the seedlings. Some of the trees were attacked with borers and died. In Gundanshola, compartment IX was planted and pits were dug in compartment X, at a total cost of Rs. 442. The only planting in the *Nilgiris* was the putting out of plants—chiefly *Grevillea*—to replace dead ones in the Badaga plantations. The results are not encouraging owing partly to poorness of soil and dryness of climate and partly to bad planting and to want of protection of the areas which are outside reserved forest. The replanting of cultivated tracts in Wynaad was

carried on, but a borer destroyed large number of nursery plants. In *North Malabar* tuckle planting was persevered with; 17 acres were planted with teak, vengai and blackwood at Chedleth at a cost of Rs. 46 including nursery, and 10 acres of the same species in Begur. These as well as the plantations of previous years are doing fairly well. The growth of vengai and blackwood is slow. The older teak plantations of 1876, 1877 and 1878 at Kanoth continue to show very poor growth. The reproduction of jack trees in tuckles has not been a success. The sandalwood plantation at Begur is not thriving. An area of 80 acres in Karimpoya reserve in *South Malabar* was prepared for teak planting in accordance with the provisions of the working plan. The cost up to end of June 1897 amounted to Rs. 2,635. The planting was actually done after that date. In *South Canara* the casuarina plantations at Mangalore suffered from erosion by the sea and it is not proposed to increase the planted area on the coast line.

In *Vizagapatam* dates were sown in various places but after germination they died off for want of rains. In *Bellary* 30 acres were ploughed and sown with date seeds in the Kuppagallu reserve, 13 acres in Metriki and 35 acres in the Bellary taluk. The cost was low as the services of watchers were utilised. An experimental plantation was made by sowing seeds in 2,700 pits in Tungabhadra and 1,500 pits in the Toranagallu reserve. There were also some broadcast sowings of nim and tamarind in reserves, and dibbling date and kanuga (*Pongamia glabra*) along streams and in moist places. In *Anantapur* 139 acres were sown with date seeds during the year in various ranges, but the operation failed except in Madakasira owing to the drought. In *Cuddapah* 49 acres were sown with date and 47 with palmyra seeds but the germination was very poor. A nursery was formed in the Horsleykonda reserve to supply plants for restocking blanks. *Pongamia glabra*, *Terminalia chebula* and *Melia Indica* germinated well, *Anogeissus latifolia* fairly well, and *Terminalia tomentosa* not at all in spite of several attempts. Two hundred and eighty-six acres in *South Arcot* were, as in previous years, leased out to ryots on three years' cowle on condition of their raising cashew plants (*Anacardium occidentale*) 6 feet apart and surrendering them at the end of the period, the ryots being permitted to cultivate cereals on the land in the meantime. The plants thus raised are in good condition varying in height from 1 to 1½ feet. The plants on 308 acres of land similarly dealt with in former years are also thriving with a few exceptions. In *Trichinopoly* seeds of *Acacia Arabica* and *Inga dulcis* were sown 3 feet apart in a portion of the Karaippakkam extension reserved land. The operation proved a thorough success. The cultural operations that had been commenced on portions of the Coleroon South and North banks were washed away by the floods. In *North Coimbatore* cultural operations were tried at Hassanur with a view to assisting the natural regeneration of sandalwood. A sub-compartment of 50 acres was operated upon; blank and open spaces were ploughed and sown with sandal, tamarind and nim seeds between July and November, and sandalwood seeds were also scattered among bushes and thorns. A number of seedlings sprang up but many of them have since been destroyed by the spotted deer that frequent the coupe. There is however a number of seedlings still surviving hidden among the high grass. In *South Coimbatore* a sum of Rs. 265 was spent on sowing seeds of valuable species on 14 acres in plots in compartment 7 of the Tekadi leased forest. The result was not known by the close of the year. Prickly-pear and rubbish were collected and burnt over 36 acres of coupe 4, compartment I, Singara working circle, preparatory to sowing with castor-oil and other seeds. It has since been decided to limit the sowing to an area of 2 acres yearly, the matter being purely experimental. There is some doubt whether caster-oil plants will prove successful nurses. In *South Canara*, seeds of valuable species were sown in certain reserves on a small scale but the result is not encouraging except in areas closed to grazing.

### (3) Early thinnings; (4) Other operations for the improvement of the growing stock.

32. In *Bellary*, thinnings were carried out in 100 acres of each of the reserved forests of Chiribi and Sankadakallu. In *Kurnool*, bamboo clumps were thinned. The work of cutting creepers was attended to in *Kurnool*, *Cuddapah*, *South Arcot*, *South Canara* and *South Coimbatore*. In the last-named division some cutting and girdling of miscellaneous trees were also carried out and the rubbish in the felled coupes was cleared and burnt. In *North Malabar* a light thinning of the plantations was made and the dominated and suppressed trees were removed; in *South Malabar* 717 acres of teak plantations were thinned at a cost of Rs. 440. Weedings extending over 3,898 acres, pruning over 240 acres and parasite-clearing over 590 acres were carried out at a cost of Rs. 5,243. In compartment IV Karimpoya 1,000 acres were cleared of climbers, while other operations including weeding, pruning, clearing parasites and similar works cost Rs. 5,243. In *South Canara* improvement fellings were carried out in the Pilarkan and Somesawar reserves. The operations consisted of setting free young growth of *Hopea parviflora*.

### (5) Experiments.

33. Experiments with seed and seedlings continued to be made. The year was very unfavourable. The progress made is shown below.

*Acacia decurrens.*—The growth of these on the Nilgiris is very good. Average height 26 feet and girth 14 inches.

*Acacia pynanthu.*—There are only very few plants on the Nilgiris, even these are of poor growth. Their average height is 8 feet and girth 2½ inches.

*Acer Campbelli.*—The plants on the *Nilgiris* are healthy. The growth is slow. Their average height is 6 feet and girth 3 inches.

*African seeds.*—These seeds introduced into the *Nilgiris* by the late Mr. Rhodes Morgan were sown in beds at Aramby. There are about 200 plants, 3 to 4 inches in height. Of the seven varieties sent by the Conservator, Southern Circle, to *South Malabar* referred to in the last report, 75 plants were raised and planted out in the Nilambur hill.

*Abies Douglasii* seeds were also sown at Ebbanad nursery (*Nilgiris*). Very few germinated and there are about 40 plants of 1 to 2 inches in height.

*Bucklandia populnea.*—The growth of the plants of 1887 and 1888 is fairly good on the whole; their average height being 15 feet and girth 7 inches.

*Bamboos.*—Though the planting of Japanese bamboos was abandoned on the *Nilgiris*, the existing plants are reported thriving. About 85 offsets were distributed among the members of the Nilgiri Agri-Horticultural Society and others, and to the Botanical Gardens at Ootacamund. Twenty-nine offsets were also sent to Mr. Gamble at Dehra Dún. They are easily propagated and are handsome and interesting, but of no commercial value. The *Dendrocalamus Sikkimensis* and *D. Hamiltonii* planted in 1889 have attained a height of 20 feet and 16 feet, and girth of 5 inches and 4 inches, respectively. The cuttings of *Bambusa valgaris* put down two years ago at Manantoddy in *North Malabar* have grown vigorously. In *South Malabar*, the *Bambusa longispathus* and *Cephalostachyum pergracile* in Pokote and Mulathmanna and the *Dendrocalamus* planted along the river banks are doing well. Out of the 25 nodes of giant bamboo which struck root last year; 9 have since died and the remainder have been planted out, 8 in Edacode and 8 in Truvellikava, 35 nodes planted during the past year have struck root and will be planted out in 1897–98. The *Bambusa vulgaris* planted in 1879 in *Truvellikava* are doing well. In *South Canara*, the clumps of *Longispathus* in the Wandur reserve show little improvement. The species is doing well in the banks of the *Cumardari* river in the Puttur range. *Dendrocalamus Brandisii* sown last year in the Wandur reserve is doing very well.

*Ceara rubber.*—The plants put out in *Ganjám* in 1895–96 are mostly doing well. In *South Arcot* the plants in the Tiruvannámalai and Tindivanam ranges exist but are apparently useless for rubber production. The trees in *North Malabar* flourish. Tappings were made in the dry weather and will be continued after the rains. In *South Malabar* all the plants are doing well. Three hundred and nine trees were tapped during the year and yielded 24 lb. of rubber. The largest tree tapped was 3 feet 9 inches in girth and gave 8 oz. of rubber, but the average yield per tree was only 1 oz. It is reported that, the trees appear over crowded and present long leafless stems with a very small crown, this perhaps injuriously affects the production of rubber.

*Cephælis Ipecacuanha.*—These plants in *South Malabar* are not thriving.

*Date.*—In *Nellore* the plants in Sriharikóta are reported to have died and those in Allipuram plantation are said to be dying off steadily. The sowings in the Rameswaram reserve in *Cuddapah* reserve and Periavaram plantation were almost a complete failure. The date offsets in *Chingleput* are in fairly good condition, and there are 50 plants living. Of the 75 offsets reported last year as living in *North Arcot*, 11 died during the year. Fifty-nine date seedlings were planted in 1886, of which 36 plonts survived the year, as regards the plants raised from the seed obtained locally, the mortality was very high. There were 121 trees in *South Arcot* at the beginning of the year, of which 3 died, leaving a balance of 118 with varying height from 1 to 22 feet. The 14 plants of 1881 in Vettangudi reserved forest, *Tanjore*, survived but the growth is slow, the greatest height at the commencement and close of the year being 11 feet 3 inches and 13 feet, respectively. In the North Date garden 139 trees survive, 5 having died during the year. Their height varies from 4 to 15 feet in height. They have not fruited. There are 49 unhealthy date trees in *South Malabar*.

*Ficus elastica.*—A few cuttings were put down at Manantoddy during the year, and one acre was planted at Begur. These are doing well. There are several trees 12 or 13 years old of this species at Manantoddy and Kuppadi growing vigorously.

*Guava* (*Chinese*).—Of the 43 plants that remained at the commencement of the year on the *Nilgiris*, 18 were sent to Mudumalai and 12 to two gentlemen planters, 13 still remain.

*Hevea braziliensis.*—The two trees at Kanoth in *North Malabar* continued to grow well. One is reported to be 27 feet high and 16 inches in girth.

*Mahogany.*—The *Swietenia macrophylla* planted at Russellkonda in *Ganjam* is reported to be doing well, and in *Kistna* is reported to have failed. In *Kurnool* seeds were sown, but did not germinate owing to the drought. In the casuarina plantations of the *Nellore* district, four *Macrophylla* seedlings of 1895 have survived. They are reported to be 6 to 8 feet high and 5 to 7 inches in girth. In *Rapur* it is reported that only eight of the plants of the 1893–94 sowings

have survived. Of the sowings of 1895–96 only 11 germinated and these have been transplanted in Veerannapenta. In *Cuddapah* the seeds were sown too late in the year to admit of the results being reported. The plants in *Chingleput* are doing well. The sowings in *North Arcot* were a failure during the year except in the river plantation In *South Arcot* 500 seeds were sown in the Ramapuram reserved forest during the year. Only 16 germinated. There were heavy casualties among the Mahogany plants in this reserve from the attacks of a grub. There were 438 plants in the district at the commencement of the year, to which 122 were added and 176 died during the year, leaving a balance of 384 plants with heights varying from 1 to 30 feet. In *Trichinopoly* the result of the experiment with the Mahogany has been discouraging. In the Udaiyárpalaiyam range, only 25 out of the 88 plants that were alive at the end of last year now survive. In *Tanjore* 24 Mahogany plants were planted in the Vettangudi reserved forest (nursery), of which 16 survive varying in height from 10 to 22 feet and in girth from 9 inches to 1 foot 11 inches Of the 28 plants planted in 1887 to the south of the South Date garden in the same reserve, 2 survive varying in height from 12 feet 3 inches to 13 feet 6 inches and in girth from 7 inches to 1 foot. Of the 72 plants planted in 1881 in the same reserve, 5 survive. Their height varies from 15 feet 3 inches to 26 feet 4 inches and girth from 11 inches to 2 feet 4 inches. In *Madura*, the Mahogany continues to thrive in the Alagar valley, where plants irrigated in their early life (now 9 years' old) have attained a height of 42 feet. Those that were planted in 1894 in the same place are also doing well. In the Cumbum range, the species has not thriven. Three pounds of the seed sent to *South Coimbatore* by the Conservator were distributed to the Tunakadavu, Bolampatti and Sholakarai ranges equally. There were at the end of the year 164 seedlings of 18 inches in the first-named range, 149 in the second and 264 in the third, all reported to be in good condition. The Mahogany on the *Nilgiris* has suffered from an attack of the borer. The trees in the Kullar nursery are doing fairly well with an average height of 26 feet and girth of 14 inches. In *North Malabar*, the *Swietenia macrophylla* plants of the previous year at Chedleth were planted out during the year, 4 acres were planted with them round the Chedleth Serambi; 300 plants were put down at the Muthanga Serambi and a few at the Kuppadi bungalow. A few plants of these species were given by the District Forest-officer to Mr. Macdonald of Karticolum estate with a view to ascertain how they would do under the constant supervision which a planter is able to give to such an experiment. Of the 9 plants so given, 1 has died, but the others are growing vigorously being (now 1 year old) about 5 feet high, some *Swietenia mahoganei* at Kanoth (now 9 years' old) have died from the effects of the borer, the rest are doing well, the best one being 26 feet high and 11 inches in girth. In *South Malabar*, the *Swietenia macrophylla* tree in Chathambarai measures 86¾ feet in height and 70 inches in girth against 84 feet in height and 69 inches in girth last year. *Swietenia macrophylla* has been planted in Pukoda and Edacode along with teak. Those saplings which are near compartment lines or open spaces are for the most part doing well, but of those wholly surrounded by teak, a large number has died. From the 6 lb. of seed sown in bamboo pots last year, only 632 plants germinated and were planted out, 530 have since died. Six pounds of seed were received during the year and sown equally in the Nilambur and Amarampalam ranges in bamboo pots. The *Swietenia macrophylla* in Dhoni is reported to be doing fairly well. Those in Walayar are stunted and 2 out of the 7 reported last year to be in existence have since died. The *Swietenia mahoganei* planted in Tiruvallikava, Ramalur and Panangod, now about 16 years' old, are doing very badly. They have been attacked by borer from time to time and are stunted ill-grown saplings that will never make decent trees. In *South Canara* there was no noticeable improvement in the growth of *Swietenia macrophylla* planted in Coondapoor and Puttur ranges.

*Syncarpia Laurifolia.*—These plants are doing well in *Madura*. In *Nilgiris* the growth of the plants planted in 1888 is good, their average height and girth being 17½ feet and 9 inches, respectively.

From *Kistna* it was reported last year that the rings of *Hardwickia binata* proved to be annual. This was further tested during the year and it has been found that the trees planted about 43–44 years ago exhibited 43 rings and a doubtful ring. *Melia Indica* and *Pithecolobium dulce* were also found to have annual rings, but in the former species spurious rings were also noticed to exist, which did not form a complete circle in the wood and seldom passed more than half-way round.

Examination of the cicatrices found on the outside of palmyra stems proved them to be each formed by the bases of three leaves. Local enquires, corroborated by the Conservator at Waltair, show that 12 leaves grow per annum. Thus four cicatrices correspond to one year's growth.

### (d) *Exploitation of Major Forest Produce.*

#### (1) Clear or re-generation fellings.

34. A few clear fellings were made in *Bellary* in different forests for local demand by iron-smelters and others. In *South Arcot* and *Tanjore*, the prescribed coupes in the casuarina plantations were clean felled. In *South Malabar*, 80 acres of forest in coupe No. I of the Karimpoya reserve were cleared for teak planting. The contractor paid Rs. 2,100 for the timber and bamboos standing thereon.

Further details of regeneration fellings are shown under (2) and (4).

(2) Selection fellings.

35. The chief departmental operation in *Ganjám* was the felling of sâl (*shorea*) for the Ordnance department. In *Kistna*, casuarina and some miscellaneous timbers were cut. Bamboos were sold in compartments subject to certain restrictions, such as leaving 20 per cent. of the bamboos of a clump. In *Kurnool*, the collection of valuable timber was continued at Ernipad and commenced at Atmakúru for supply to depôts. The branch wood was utilised for agricultural implements. These were offered for sale, but it is said there was very little demand owing partially to the state of the season and partially to the facility with which head-loads of timbers could be stolen. The Collector has been directed to take special measures for a period to check these thefts at whatever cost. In *Bellary*, a hundred *Sundra* pestles and some badly-grown trees of the same species were felled in the North-East range and in the Sandúr leased forests, respectively. A portion of these was sold at the Bellary depôts. The operation in *Chingleput* consisted in the felling of dead and dying casuarina trees in the Maiyur plantation. The felled material was supplied to the Reformatory at a net profit of Rs. 4–10–0 per ton. In *North Arcot*, bamboos were felled and supplied to the Ordnance department for lance-staves and tent-poles. In *South Arcot*, 455 trees of different species were marked and felled in the Tenmalai block, and the timber, about 1,476 cubic feet, was removed to the Tiruvannámalai depôt. Under the same system 108 vengai trees (*Pterocarpus marsupium*) yielding 1,128 cubic feet were removed by a purchaser from the Valasamalai reserved forest. Bamboos of various sizes were selected and felled from different blocks for supply to the Madras Ordnance department, while the bamboos in the hill forests of the Tiruvannámalai range were leased out to a contractor, who was required to leave uncut not less than 7 to 10 culms in each clump. Selection fellings of *Acacia arabica* were carried out in *Trichinopoly* to supply the Trichinopoly Central Jail with fuel. In *Tanjore*, casuarina trees were felled and supplied to the Tahsildar of Shiyáli for closing breaches in the banks of the Coleroon. In *Tinnevelly*, selection fellings were carried on to a limited extent in Ambásamudram and Srívilliputtúr for departmental use. The trees felled were converted into scantlings and poles, which yielded 3,455 cubic feet. In addition 17,250 cubic feet were removed by contractors in the taluks of Ambásamudram, Tenkási and Nángunéri from ever-green forests. The trees were marked by departmental officers, and the contractors paid for the fashioned timber at a fixed rate per cubic foot. In *Nilgiris*, selection fellings were continued in the Mudumalai forests. In *South Malabar*, selection fellings yielded 100,789 cubic feet cut by the department or contractors, in the latter case the trees having been marked by Range officers. Of this quantity, 63,440 cubic feet came from 3,955 acres of the coupe No. I of the Karimpoya reserve, 28,000 cubic feet from 15,200 acres of the Chenat Nair reserve, and the rest from the Punakadu reserve and the new Amarampalam forest. In *South Canara*, 512 trees were felled in Pumale and Someswar, which yielded 843 logs. Only half of these had reached the sale depôts at the close of the year owing to difficulty in carting.

(3) Improvement fellings; and (4) Coppice fellings and coppice with standard fellings.

36. These operations are of the greatest importance and upon their skilful execution depends to a great extent the future welfare of the scattered forests in the plains. These, surrounded by villages and cultivation, consist for the most part of growth, stunted, hacked and malformed—the natural consequence of the unregulated fellings and grazings which obtained for years. During the year under review the work has extended over very considerable areas. The Board regrets that in Salem and North Arcot, where these operations were conducted over large areas, it has not yet been found practicable to frame working plans for them. Without plans, although systematically arranged, there is always the danger that the area annually operated upon is in excess of the possibility of the forest. In the *Northern Circle*, improvement fellings were carried on in *Kurnool* and to some extent in *Kistna*. In the last-named district, the babul area was operated on in accordance with the working plan, and

standards were selected by the District Forest-officer. Coupes were opened in the Mangrove working circles. In the Golgonda taluk of the *Vizagapatam* district two coupes of about 60 acres each were felled in the Madalammakonda and Arlova reserves. The material obtained was disposed of locally as firewood, charcoal and small poles. In *Bellary*, a coupe of 200 acres in the Neraniki reserve was sold in auction to meet the local demand for fuel and timber, and two coupes of 450 and 200 acres in extent were leased to iron-smelters for manufacturing charcoal. In the Ramandrug range, portions of 10 (*b*) and 8 (*d*) compartments of the Sandur leased forests were worked, as also sub-compartment 6 (*d*). The system in all these areas is coppice with standards.

In the *Central Circle*, 200 acres of the Balapalle working circle in *Cuddapah* were treated under the coppice with standards system and the wood was supplied to the Madras Railway. About 1,500 acres of the Kodur and Seshachalam reserves were also treated in a similar manner for the same purpose. In *Nellore*, coupes were felled in the Mocherla-Chilamcherla and Survepalle reserves. In *Chingleput*, sample areas were marked in seven coupes to ascertain their yield per acre before accepting offers from contractors. The coupes 666, acres in extent, were sold, the method of working being coppice with standards. In *North Arcot*, coupes were felled for coppice under standards by departmental agency and contract. The area operated upon exceeded 2,800 acres. The average price per acre under contract was Rs. 5–12–2. In *South Arcot*, coupes in five reserves were felled over departmentally for supply of engine fuel to the South Indian Railway, and in eight others were felled over by purchasers. The area of the coupes amounted to 1,530 acres. In *Salem*, several coupes were opened for working departmentally in connection with railway fuel and local supply and other coupes were worked by contractors. It is estimated more than 3,900 acres were operated upon. In *Trichinopoly*, coppice fellings were carried on in some of the *Casan* (Memecylon) coupes. Some of the coupes in the Kulittalai Cauvery south bank plantations were felled departmentally as coppice with standards and the wood (in billets) was supplied to the South Indian Railway departmentally. A few coupes in the Manaparai hill reserved forests were also worked under the same system, but the right of felling was sold to private contractors. In all 418 acres were felled for coppice.

In the *Southern Circle*, improvement fellings were conducted in *North and South Malabar*. The operation in *North Malabar* is reported to have yielded 54,000 cubic feet of timber, but the Conservator remarks that "this is really given by selection fellings, the true improvement operation supplying very little timber and for the most part returning no immediate profit." In No. I Karimpoya forest, *South Malabar*, 238 trees of useless species were cut. In *Tinnevelly*, working circles were formed and fellings regulated. The fellings, amounting to 539 acres, were, with one exception, carried out through contractors. In *Madura*, the coupe fellings in six localities yielded a total outturn of 62,374 cubic feet from 168 acres or an average of 371 cubic feet per acre. The local mills paid Rupees 2,749 for 392 tons against an expenditure of Rs. 2,356. In *South Malabar*, the produce on 100 acres near Walayar was sold and realised Rs. 1,514. In *South Canara*, coppice felling was conducted in eight blocks by contractors, and departmentally in Sabladi, where twenty acres yielded 1,642 cubic feet, the cost of felling being Rs. 127 and the revenue Rs. 193.

### (5) Unregulated fellings.

37. Extraction from reserved forests under cover of permits prevails to a large extent throughout the Presidency. It is gradually being replaced by located fellings. The substitution of the latter is a work of time and even when complete, arrangements must still be made under which ryots can procure timber, not available in the coupes, from other parts of the forests. Any incompletely-considered system of restriction is to be deprecated. It is not an easy task to wean the ryots from customs they have practised for years and to arrange for coupes within reasonable distance to meet all the small local requirements. In *Kistna*, poles of miscellaneous timbers were allowed to be cut on permit and the scheme of making the village heads recovering officers is working well. In *Gódávari*, it is reported that the permit system "has been brought under better control by stopping village officers from issuing permits and by entrusting this work to permit gumastahs on fixed pay." In *Kurnool*, the removal of the lower

classes of timber, bamboos, fuel and charcoal on permit continued throughout the year. In a few localities, a limited quantity of higher class timber was also removed on permit. In *Bellary*, fellings under permits were permitted in reserves to meet the requirements of the ryots in places where the demand was not quite sufficient to warrant the opening of coupes. In *Nellore*, head-load tickets were issued to meet the wants of the people. In *Cuddapah*, the permit system had to be largely resorted to again as the attempt to introduce located fellings was not attended with success for want of suitable contractors. In *Chingleput*, the local demand for timber and firewood was met by the issue of permits by permit-issuing officers and Range-officers. In *South Arcot*, permits are issued for removals from unreserved lands. In *Tanjore*, permit-issuing officers are authorised to issue permits only for dead-wood and third-class timber trees. Unregulated fellings in *North Malabar* included the free grant of timber and bamboos as well as jack timber cut on special permits from unreserved lands. In *Madura*, no permits were issued for first-class timbers, but Range officers are authorised to issue permits for second and third class timbers to meet the requirements of the villagers.

(e) *Extraction and transport of Major forest produce by land and water.*

38. There is little to be recorded under this head which has not already been said in previous reports. In *South Coimbatore*, an attempt to float timber down the Bhaváni above Méttupálaiyam failed, but is proposed to be repeated with smaller logs. The timber slide referred to in the last report was reconstructed during the year. The scheme was to do away with the defective bottom or pavement and to replace it with planking and to put up thick planks at the sides also in order to reduce the width of the slide. The difficulty which hitherto existed in using the slide on dry days has now been overcome, but further improvement is under contemplation in the direction of controlling the speed.

(f) *Exploitation of Minor Forest Produce.*

(1) Extraction of fodder.

39. Towards the close of the year under report, the reserves in several districts in the Northern Circle and in Cuddapah in the Central Circle were thrown open to free grazing on account of the famine. Free cutting of grass in the reserves of the Berhampur taluk, *Ganjám*, was granted from January to July 1897, but the concession was not availed of to any extent. In *Kistna*, grass and leaves were allowed to be taken on free permit from all forest reserves during the greater part of the year, as fodder in unreserved lands was extremely scarce. Leaves were prohibited to be taken from only six species, viz., (1) *Harwickia binata*, (2) *Anogeissus latifolia*, (3) *Chloroxylon swietenia*, (4) *Dalbergia latifolia*, (5) *Pterocarpus marsupium* and (6) *Acacia sundra*. In *Kurnool*, removal of head-loads of grass was permitted free of charge during the latter half of the year. Only in *Bellary* was fodder extracted departmentally and supplied to the Commissariat Department. During the first half of the year, the ryots in general removed fodder on payment. The revenue from this source was Rs. 7,017 against Rs. 1,247 in the preceding year, which represents nearly 22,500 cart-loads at five annas a cart-load. A great portion of this revenue was derived from the Sandur leased forests. In *Cuddapah*, the removal of fodder free of charge was permitted during a great portion of the year and the privilege was extensively availed of. In *South Arcot*, 2,337 head-loads of grass at 3 pies per head-load were cut and removed from the Annamalai forests for cattle brought for sale to the annual fair at Tiruvannámalai. In *South Canara*, the right to cut and remove grass from reserves was sold in auction. The amount realized was Rs. 334 against Rs. 127 collected in the preceding year.

(2) Grazing.

40. The attempt to distinguish agricultural and non-agricultural cattle has been finally abandoned and the ordinary rates have been fixed at three-fourths of the old maxima, viz., buffalo, As. 6; ox, As. 3; sheep and goats, As. 1–6. In special tracts reserved for cattle-breeding, &c., increased rates are permissible under the sanction of the Government.

The year under review shows an increase of Rs. 35,858 from grazing and grass removals :—

| | 1895-96. | 1896-97. |
|---|---|---|
| | RS. | RS. |
| Northern Circle ... ... ... ... ... | 1,24,747 | 1,27,255 |
| Central Circle ... ... ... ... ... | 1,62,681 | 1,78,470 |
| Southern Circle ... ... ... ... ... | 53,068 | 70,629 |
| Total ... | 3,40,496 | 3,76,354 |

The *Northern Circle* contributes Rs. 2,508. There was a decrease in *Ganjám* due to abandonment of proposed plains reserves and free grazing; in *Kurnool*, throwing open reserves to free grazing caused the deficit. *Kistna* under the parcellaire system again shows a reduction of revenue. In two years the revenue has fallen from Rs. 90,144 to Rs. 70,389. This year the falling off is ascribed to migration of professional herdsmen to the Nizam's dominions and elsewhere and to the removal on free permit of leaves and grass from reserves. In *Bellary* there was an increase of Rupees 14,457, of which Rs. 5,770 came from sales of fodder; the balance was the result of the enhancement of grazing rates and the unfavourable season. The latter compelled the ryots to resort to the reserves. The increase in the *Central Circle* was general except in *Cuddapah* where free grazing was allowed and in *Trichinopoly* and *Tanjore*. In the last two districts proposals to reserve several tracts in the plains have been abandoned. The largest increase occurred in the *Salem* district due to the revision of the rates.

In the Southern Circle, in *North Malabar* and the *Nilgiris*, the revenue was less than in 1895–96. The decrease in *North Malabar* was trifling and in the *Nilgiris* was due to mortality from cattle disease. The revenue in *North Coimbatore* increased by Rs. 13,521 (over 50 per cent.); the number of licensed animals rose from 119,490 to 199,687. The increase in the remaining districts was due to more efficient control.

### (3) Miscellaneous produce.

41. As noticed in the last report, miscellaneous produce is not usually collected by Departmental Agency, but by contractors under lease. In exceptional cases, however, such as want of adequate offers, the collection is made departmentally. In *Vizagapatam*, the contract system is reported to suit the convenience both of the merchants and the hillmen and to be financially successful. Only in Palkonda, where no offer was not made, the collection was made departmentally. In *Gódávari*, the produce is worked neither departmentally nor under contract, except Rela (*Cassia fistula* and Tangedu (*Cassia auriculata*) in the unreserved lands of the Yernagudem and Ellore ranges. In Bhadráchalam seigniorage is levied on exports. The produce is mostly brought down by coolies or pack bullocks to the weekly markets held at the foot of the hills and there bought by merchants. In *Bellary*, the department undertook the collection of gallnuts and gum for which there were no bids at auction. In *Chingleput* and *Tanjore* permits were issued for manure leaves. In the former district they were issued also for palmyra leaves and for fruit of toddy-yielding trees not tapped. The collection of Divi-divi (*Cæsalpinia coriaria*) pods was the only departmental operation in *Trichinopoly*. In *Madura*, manure leaves and thatch grass were removed on permits. In *North Malabar*, horns, skins and gum-kino are collected departmentally. The last-named produce is extracted from the Vengai tree (*Pterocarpus marsupium*). The price originally obtained was As. 8 a pound, but is now Rs. 2–8–0. The effect of the tapping on the trees is being watched. In *South Canara*, catechu was manufactured to the extent of nearly 17 tons at a cost of Rs. 216 a ton, while a sum of Rs. 715 was realised against Rs. 540 a ton in the previous year. Twenty-two cinnamom stills were worked yielding Rs. 1,021. The collection of horns departmentally was tried but with little profit.

## CHAPTER III.—GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

42. The total outturn of the year under timber and other produce compares with that of the previous year as follows:—

ABSTRACT I.—Comparative yield as per Forms Nos. 55, 56, 72A and 72B.

| | Timber (in cubic feet) including sandalwood. | | Fuel (in cubic feet). | | Bamboos (in numbers). | | Minor produce (gross value in rupees). | |
|---|---|---|---|---|---|---|---|---|
| | 1895-96. | 1896-97. | 1895-96. | 1896-97. | 1895-96. | 1896-97. | 1895-96. | 1896-97. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| By Government Agency .. | 423,476 | 449,988 | 2,897,561 | 2,450,068 | 57,067 | 229,852 | 16,959 | 47,746 |
| By purchasers (including confiscations) .. .. | 2,409,066 | 2,107,635 | 10,829,705 | 9,467,371 | 33,611,403 | 30,437,257 | * 1,060,371 | * 852,453 |
| By free grants .. .. | 70,678 | 82,951 | 12,074 | 7,212 | 57,349 | 157,961 | 2,099 | 1,773 |
| By right-holders .. .. | 3,826 | 1,702 | 45 | 257,541 | .. | 21,614 | 457 | 40,767 |
| Total .. | 2,907,046 | 2,642,276 | 13,739,385 | 12,182,192 | 33,725,819 | 30,846,684 | 1,079,886 | 942,739 |
| Increase or decrease in 1896-97 as compared with 1895-96 .. .. .. | .. | — 264,770 | .. | —1,557,193 | .. | —2,879,135 | .. | — 137,147 |
| Percentage of increase or decrease over the previous year's total .. .. | .. | — 9·1 | .. | — 11·3 | .. | — 8·5 | .. | — 12·7 |

* Includes grazing fees.

The variations are explained below under the respective heads.

### *Section I.—Departmental Operations* (Form No. 57).

43. The following abstract shows the produce collected and disposed of departmentally during 1896-97 as compared with that of the previous year:—

| Produce collected. | During 1895-96. | | | During 1896-97. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Cost. | Average. | Quantity. | Cost. | Average. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. .. .. .. C. ft. | 421,784 | 74,206 | 0 2 10 | 447,438 | 67,287 | 0 2 5 |
| Fuel .. .. .. .. .. .. „ | 2,904,126 | 1,02,065 | 0 0 7 | 2,450,068 | 1,10,388 | 0 0 8 |
| Bamboos .. .. .. .. .. No. | 57,067 | 1,389 | 0 0 5 | 229,852 | 4,576 | 0 0 4 |
| Sandalwood .. .. .. .. .. C. ft. | 2,711 | 2,855 | 1 0 10 | 2,550 | 2,645 | 1 0 7 |
| Minor produce .. .. Mds. (of 25 lbs.) | 64,420 | 8,217 | 0 2 0 | 49,143 | 15,644 | 0 5 1 |
| Total .. | .. | 1,88,732 | .. | .. | 2,00,540 | .. |

| Produce disposed of. | During 1895-96. | | | During 1896-97. | | | Stock on 1st July 1896. | Stock on 30th June 1897. |
|---|---|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | Quantity. | Value. | Average. | | |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. | | |
| Timber .. .. C. ft. | 339,851 | 1,62,337 | 0 7 8 | 367,693 | 1,76,885 | 0 7 9 | 243,646 | 323,391 |
| Fuel .. .. .. „ | 2,965,310 | 1,62,292 | 0 0 11 | 2,564,100 | 1,88,079 | 0 1 2 | 949,852 | 835,820 |
| Bamboos .. .. No. | 39,263 | 3,025 | 0 1 3 | 229,881 | 10,086 | 0 0 8 | 19,746 | 19,717 |
| Sandalwood .. .. C. ft. | 3,897 | 21,418 | 5 7 11 | 1,797 | 15,720 | 8 12 0 | 1,202 | 1,955 |
| Minor produce .. Mds. | 21,525 | 18,946 | 0 14 1 | 51,091 | 34,837 | 0 10 11 | 81,456 | 79,508 |
| Total .. | .. | 3,68,018 | .. | .. | 4,25,607 | .. | .. | .. |

The quantity collected under "timber" and "bamboos" is in excess of the collections of the year preceding, while that under "fuel," "sandalwood" and "minor produce" shows a decrease. The increase under timber occurred chiefly in *Kistna*,

*Kurnool*, *South Canara* and *South Malabar*, counterbalanced partly by large decrease in *Bellary* and *Tinnevelly*. The felling of two coupes in Gopuvanipalem and cutting of piles for the Madras-Bezwada Railway contributed to the increase in *Kistna*, while that in *Kurnool* and *South Canara* was the result of greater demand. In *South Malabar* the collection of a large number of saplings in connection with improvement fellings accounts for the increase. The decrease in *Bellary* is ascribed to the stoppage of the coupe felling in the Ramandrug range owing to absence of demand, and that in *Tinnevelly* to the abandonment of departmental operations in Srívilliputtúr, Sankaranayinárkóyil and Nángunéri taluks.

The decrease under "fuel" was generally due to the substitution of private for direct working. There was a falling off in *Kurnool*, *Bellary*, *Cuddapah*, *North Arcot*, *Trichinopoly* and *Tinnevelly* which was somewhat made up by the increase in *Vizagapatam*, *Nellore*, *South Arcot*, *Salem*, *Nilgiris* and *South Coimbatore*. The decrease in *Kurnool* was due to the suspension of improvement fellings at Chelama as there was a large stock of the previous year's cuttings. In *Bellary* fellings were restricted owing to absence of demand. A large quantity of fuel from patta and waste lands was brought in by poor ryots and sold at cheap rates as a means of livelihood during the famine. The supply of engine fuel to the Madras Railway through contractors accounts for the decrease in *Cuddapah*, and in *North Arcot* fellings in the Mamandur coupes were suspended owing to the ill-health of the establishment. In *Trichinopoly* the collection was practically normal. A quantity of stacked as well as branch wood felled by contractors in 1894–95 was brought to account in 1895–96 which tended to swell the year's collection. The decrease in *Tinnevelly* is ascribed to the partial working of coupe No. IV of the Padaramalai working circle. The increase in *Vizagapatam* was due to increased working of the coupes in the Golgonda and Sarvasiddhi ranges and that in *Nellore* is explained by the larger outturn from the Sríharikóta forests and by the greater extraction of dead trees from the casuarina plantation range. In *South Arcot* and *Salem* there was an increased demand for engine fuel. The increase in *South Coimbatore* was due to the greater yield from the Sholakarai and Ayirangal working circles.

Under "bamboos" there was a large increase chiefly in *South Arcot*, *Salem*, *South Malabar* and *North* and *South Coimbatore*. In *South Arcot* and *Salem* the increase was due to the demand from the Madras Ordnance Department and from the Hosur Remount Depôt. In *South Malabar* the cutting of a larger number of saplings was accompanied by the cutting of more bamboos. The experimental cutting of bamboos in *North Coimbatore* and the larger collection in Bollampatti and Sholakarai ranges in *South Coimbatore* account for the increase in these districts.

Under "sandalwood" the decrease was small and calls for no remarks. The decrease under "minor produce" occurred chiefly in *Vizagapatam*, *Bellary* and *Nellore*. It was due to a great extent to the unfavourable character of the season during the year. In *Vizagapatam* the collection of rela and avuru grass was restricted as there was a large stock of the previous year's collection on hand. In *Bellary* the decrease is attributed to the removal of grass required by the Commissariat Department on permits in preference to departmental collection and sale. The large decrease in *Nellore* was due to short demand for nux-vomica and smaller collections of soapnuts owing to prevalence of disease in the sea-borne villages. These decreases were partly counterbalanced by increases in *North* and *South Coimbatore* where departmental collections were undertaken on a large scale. Although the total quantity collected under minor produce was less compared with that of the previous year, the gross value of the produce collected during the year under report is far higher. This was chiefly due to the collection departmentally of valuable produce such as gallnuts, seekoy, *Acacia Concinna* wax, horns, &c., in North and South Coimbatore.

Under disposals the quantity of timber sold showed an advance on the sales of the preceding year. The increase occurred principally in *Kistna*, *Kurnool*, *North* and *South Malabar*. It was somewhat counterbalanced by decrease in *Ganjám*, *Bellary*, *North Arcot*, *South Coimbatore* and *Tinnevelly*. The increase in *Kistna* was due to causes already explained under collections, and that in *Kurnool* to the working of two sale depôts throughout the year. In *North* and *South Malabar* the demand was brisk

so that a quantity of the previous year's collections which remained on hand was sold during the year. The decrease in *Ganjám* was due to logs for sleepers in the Russellkonda depôt not having been sold during the year for want of good prices, to the cessation of demand by the East Coast Railway and to the prevalence of famine. In *Bellary* and *Tinnevelly* the decrease was due to causes already explained under collections and that in *North Arcot* to absence of demand for red-wood posts and miscellaneous timber. South Coimbatore has not explained the cause of decrease.

The disposals under "fuel" show a decrease which occurred chiefly in *Kistna*, *Kurnool*, *Bellary*, *North Arcot*, *Trichinopoly*, *Madura* and *Tinnevelly* and an increase in *Vizagapatam*, *Nellore*, *South Arcot*, *Salem* and *South Coimbatore*. In *Kistna* and *Bellary* the decrease was due to slack demand and in *Kurnool* to the suspension of improvement fellings at Chelama and to smaller demand from the cotton press at Nandyal. In *North Arcot* previous year's sales included large quantities of old material from previous years which, coupled with the absence of demand for the fuel felled in the Naickaneri coupes during the year, accounts for the decrease in the district. In *Trichinopoly* and *Tinnevelly* the decrease was due to causes already explained under collections and in *Madura* there was no demand from the mills. The increase in *Vizagapatam* and *South Coimbatore* has not been explained, while in *Nellore* it was due to a better market for casuarina wood than in previous year. The increase in *South Arcot* and *Salem* was due to causes already explained under collections.

The increase in the disposals of "bamboos" occurred chiefly in *Kurnool*, *South Arcot*, *South Malabar* and *North* and *South Coimbatore*. In *Kurnool* it was due to the sale of most of the material collected at close of 1895–96. The increase in *South Arcot* is only nominal as a large number was used for departmental works and some were written off as decayed and useless. In *South Malabar* it was due to the disposal of the stock collected for floating the saplings as explained under collections. There was a keen demand in *North Coimbatore* which accounted for the increase; no explanation has been given for the increase in *South Coimbatore*.

The decrease under "sandalwood" was due to want of satisfactory offers in *Salem*, *North Coimbatore* and the *Nilgiris*. The disorganization of all business in Bombay, the chief market for sandalwood, explains the decrease.

Under "minor produce" the increase chiefly occurred in *Vizagapatam* and *North Coimbatore*. The increase in *Vizagapatam* has not been explained, but that in *North Coimbatore* is ascribed to causes already explained under collections.

As regards cost of collection there was a slight decrease in the rate for timber, bamboos and sandalwood and increase for fuel and minor produce. The decrease in the case of timber was chiefly due to the cost of sawing and carting sleepers and timber supplied to the Ordnance Department from North Malabar having been included in the previous year in the cost of collection and to saving effected in carriage in the Nilgiri district where no departmental transport was undertaken during the year under report. The low rate paid for felling in *South Coimbatore* and the steps taken to reduce the size of logs by sawing so as to reduce cartage also contributed to the decrease. The decrease in the cost rate of collection of bamboos and sandalwood was small and calls for no remarks. The slight increase under "fuel" is due to collection and supply to Government depôts. The increase in the rate for minor produce was chiefly due to the collection (which costs comparatively little) of a very large quantity of rela and avuru grass in the *Vizagapatam district* in the previous year and to the restricted collection in the year under report.

The average rate of sale under timber shows a slight increase due to the sale of a larger quantity of valuable timber than in the previous year. The increase in the average sale rate of fuel was due to keen competition for coupes generally and to the demand for casuarina wood in the *Nellore district*. The decrease in the rate under "bamboos" was due to the experimental collection and sale undertaken departmentally in *North Coimbatore*, while the increase under "sandalwood" is due to a sum of Rs. 10,970 appertaining to the sales of 1895–96 having been received and credited into account during 1894–95. The decrease under "minor produce" was due chiefly to the sale of a large quantity of rella and avuru grass in the *Vizagapatam district*.

44. The subjoined abstract shows the quantity and value of timber and other produce removed by consumers and purchasers as compared with the results of the previous year:—

(FORM No. 72-A.)

ABSTRACT K.—Produce removed by purchasers.

| | During 1895-96. | | | During 1896-97. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Amount of sales. | Average. | Quantity. | Amount of sales. | Average. |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. .. C. ft. | 1,427,394 | 1,30,610 | 0 1 6 | 1,078,313 | 1,08,811 | 0 1 7 |
| Firewood .. .. .. ,, | 3,260,124 | 73,378 | 0 0 4 | 2,425,998 | 55,510 | 0 0 4 |
| Bamboos .. .. .. No. | 19,819,703 | 92,290 | 0 0 1 | 15,905,473 | 69,664 | 0 0 1 |
| Grass and grazing .. .. .. | .. | 1,28,043 | .. | .. | 1,23,939 | .. |
| Minor produce .. .. .. | .. | 3,11,775 | .. | .. | 1,58,319 | .. |
| Total .. | .. | 7,36,096 | .. | .. | 5,16,243 | .. |
| *Central Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 784,368 | 78,167 | 0 1 7 | 811,280 | 89,956 | 0 1 9 |
| Firewood .. .. .. ,, | 4,474,468 | 1,75,849 | 0 0 8 | 3,859,689 | 1,30,828 | 0 0 7 |
| Bamboos .. .. .. No. | 11,698,159 | 97,242 | 0 0 2 | 12,442,370 | 91,468 | 0 0 1 |
| Grass and grazing .. .. .. | .. | 1,60,475 | .. | .. | 1,78,438 | .. |
| Minor produce .. .. .. | .. | 2,88,858 | .. | .. | 2,19,072 | .. |
| Total .. | .. | 8,00,591 | .. | .. | 7,09,762 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. C. ft. | 166,119 | 32,454 | 0 3 2 | 154,039 | 47,041 | 0 4 10 |
| Firewood .. .. .. ,, | 3,076,333 | 51,654 | 0 0 5 | 3,137,739 | 90,505 | 0 0 6 |
| Bamboos .. .. .. No. | 2,038,050 | 22,126 | 0 0 2 | 2,065,094 | 18,149 | 0 0 2 |
| Grass and grazing .. .. .. | .. | 53,068 | .. | .. | 71,117 | .. |
| Minor produce .. .. .. | .. | 1,17,628 | .. | .. | 1,00,548 | .. |
| Total .. | .. | 3,06,930 | .. | .. | 3,27,360 | .. |
| Presidency Total. Timber .. .. C. ft. | 2,377,881 | 2,41,231 | 0 1 7 | 2,043,632 | 2,45,808 | 0 1 11 |
| Presidency Total. Firewood .. .. ,, | 10,810,925 | 3,30,881 | 0 0 6 | 9,423,426 | 2,76,843 | 0 0 6 |
| Presidency Total. Bamboos .. No. | 33,555,912 | 2,11,658 | 0 0 1 | 30,412,937 | 1,79,281 | 0 0 1 |
| Presidency Total. Grass and grazing .. | .. | 3,41,586 | .. | .. | 3,73,494 | .. |
| Presidency Total. Minor produce .. .. | .. | 7,18,261 | .. | .. | 4,77,939 | .. |
| Grand Total of Sales .. | .. | 18,43,617 | .. | .. | 15,53,365 | .. |

The total value of removals in the year under report, as compared with that of the previous year, shows a net decrease of Rs. 2,90,252 as detailed in the margin. The slight increase under "timber" is noticeable chiefly in the districts of *Gódávari*, *Chingleput*, *North Arcot*, *Salem* and *Tinnevelly*. The increase under this item was mainly due to the credit of the value of trees on unreserved lands to Forests instead of to Land Revenue—Miscellaneous, and to the realization during the year of the value of trees on lands in reserved forests leased out to planters for coffee cultivation on the Shevaroy Hills in the Salem district.

| | Rs. |
|---|---|
| Timber .. .. .. .. | + 4,577 |
| Fuel .. .. .. .. | — 54,038 |
| Bamboos .. .. .. .. | — 32,377 |
| Grass and grazing .. .. | + 31,908 |
| Minor produce .. .. .. | — 2,40,322 |
| Total .. | — 2,90,252 |

Under "Fuel" there was a decrease chiefly in *Vizagapatam*, *Gódávari*, *Kistna*, *Kurnool*, *Cuddapah*, *South Arcot*, *Salem*, *South Coimbatore* and *Madura*. The concessions allowed under Rule 7 of the rules under section 26 of the Forest Act partially explain this, particularly in the last two districts. In *Vizagapatam* it is attributed to the unfavourable character of the season and in *Gódávari* to the removal of a smaller quantity of casuarina wood by Public Works Department authorities from the Bendamoorlanka and Narsapur plantations of the delta range. It is explained that inability of the poor classes to pay for fuel when the price of grain was ruling high was the cause of the decrease in *Kistna* and *Kurnool* districts. The decrease in

*Cuddapah* is attributed to the unfavourable season and to the stoppage of the issue of licenses for fuel and the introduction of the system of located fellings, in *South Arcot* to the working of certain coupes by departmental agency for supply of fuel to the South Indian Railway and to want of demand generally in certain ranges. In *Salem* coupe contracts in the Tiruppattúr Range were not given out as the period of previous contracts extended to the year under report.

Under "Bamboos" the decrease is chiefly spread over *Ganjám*, *Gódávari*, *Kurnool* and *North Arcot*. It is generally attributed to famine which prevailed during the year and to slack demand. The increase under "grass and grazing" is explained under "grazing" in paragraph 40 *supra*. The decrease under "minor produce" occurs in *Vizagapatam*, *Kurnool*, *Bellary*, *Anantapur*, *Cuddapah*, *Nellore*, *North Arcot*, *Trichinopoly*, *North* and *South Coimbatore*, and it was due in a large measure to the drought. The tanning industry, for which Avaram bark (*Cassia auriculata*) is used, has suffered from the restrictions placed on the import of hides into Europe on account of the plague in India; this decreased the sales of Avaram bark. In *Vizagapatam* rela and tangedu contracts were not sold and in *Anantapur* payments on account of the Tangedu bark leases were temporarily suspended owing to adverse season and the revenue from date trees was not fully realized. In *Cuddapah* the amroy crop failed and only a smaller amount was realized from tangedu leases owing to the bad season. In *Nellore* the areas leased contained little tangedu. In *Kurnool* and *Bellary* the decrease was due to famine. The decrease in *North Arcot* was due to postponement of the bark leases of some of the ranges for a year with a view to give rest to the forests, and that in *Trichinopoly* was almost nominal, as the lease amounts for periods covering two or more years were all brought to account during 1895–96. The decrease in *North* and *South Coimbatore* was due to the introduction of departmental collection and disposal.

45. The following statement shows the comparative cost of departmental and private working and the net profit derived from each class of produce under each system :—

| Items. | Measure. | Quantity sold. | Amount of sale-proceeds. | Charges. | | | Net profit or loss. | Rate of net profit (column 8 ÷ column 3) per mensem in column 2. |
|---|---|---|---|---|---|---|---|---|
| | | | | A. Conservancy and works. | B. Establishment and contingencies. | Total. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. A. P. |
| Departmental Working— | | | | | | | | |
| Timber .. .. .. | C. F. | 367,693 | 1,76,885 | 67,287 | 37,449 | 1,04,736 | 72,149 | 0 3 2 |
| Fuel .. .. .. | ,, | 2,564,100 | 1,88,079 | 1,10,388 | 45,776 | 1,56,164 | 31,915 | 0 0 2 |
| Bamboos .. .. .. | NO. | 229,881 | 10,086 | 4,576 | 2,249 | 6,825 | 3,261 | 0 0 3 |
| Sandalwood .. .. | C. F. | 1,797 | 15,720 | 2,645 | 2,817 | 5,462 | 10,258 | 5 11 4 |
| Minor produce .. .. | MDS. | 51,091 | 34,837 | 15,644 | 7,743 | 23,387 | 11,450 | 0 3 7 |
| Private Working— | | | | | | | | |
| Timber .. .. .. | C. F. | 2,043,632 | 2,45,808 | 15,642 | 40,099 | 55,741 | 1,90,067 | 0 1 6 |
| Fuel .. .. .. | ,, | 9,423,426 | 2,76,843 | 17,617 | 45,162 | 62,779 | 2,14,064 | 0 0 4 |
| Bamboos .. .. .. | NO. | 30,412,937 | 1,79,281 | 11,409 | 29,246 | 40,655 | 1,38,626 | 0 0 1 |
| Grazing .. .. .. | .. | .. | 3,73,494 | 23,768 | 60,929 | 84,697 | 2,88,797 | .. |
| Minor produce .. .. | .. | .. | 4,77,939 | 30,415 | 77,967 | 1,08,382 | 3,69,557 | .. |

The rate of profit in the case of departmental working of timber exceeds that in the case of private working and is due to the sale of a larger quantity of valuable timber such as teak, rosewood, vengai, redwood, sâl, &c. Under "fuel" departmental working shows a loss as compared with private working. This is chiefly due to the inclusion in the quantity sold of 101,867 cubic feet of fuel used departmentally or written off as useless, &c. That under bamboos shows more profit under departmental working and is due to the superior quality of bamboos extracted by Government.

46. The sales of confiscated produce during the year under report, as compared with those of the previous year, are presented in the subjoined abstract :—

ABSTRACT L.—Confiscation (Form No. 72 B).

| | During 1895-96. | | | During 1896-97. | | |
|---|---|---|---|---|---|---|
| | Quantity. | Value. | Average. | Quantity. | Value. | Average. |
| *Northern Circle.* | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Timber .. .. .. .. C. ft. | 15,038 | 3,618 | 0 3 10 | 49,917 | 5,741 | 0 1 11 |
| Firewood .. .. .. „ | 4,584 | 191 | 0 0 8 | 16,241 | 330 | 0 0 4 |
| Bamboos .. .. .. .. No. | 50,738 | 269 | 0 0 1 | 17,960 | 187 | 0 0 2 |
| Minor produce .. Money value. | .. | 315 | .. | .. | 648 | .. |
| Total .. | .. | 4,393 | .. | .. | 6,956 | .. |
| *Central Circle.* | | | | | | |
| Timber .. .. .. .. C. ft. | 4,996 | 803 | 0 2 7 | 7,024 | 976 | 0 2 3 |
| Firewood .. .. .. „ | 6,431 | 326 | 0 0 10 | 8,239 | 659 | 0 1 3 |
| Bamboos .. .. .. .. No. | 3,969 | 106 | 0 0 5 | 4,100 | 64 | 0 0 3 |
| Minor produce .. Money value. | .. | 114 | .. | .. | 97 | .. |
| Total .. | .. | 1,349 | .. | .. | 1,796 | .. |
| *Southern Circle.* | | | | | | |
| Timber .. .. .. .. C. ft. | 11,151 | 3,166 | 0 4 7 | 7,062 | 2,272 | 0 5 2 |
| Firewood .. .. .. „ | 7,765 | 998 | 0 2 1 | 19,465 | 613 | 0 0 6 |
| Bamboos .. .. .. .. No. | 784 | 77 | 0 1 7 | 2,260 | 38 | 0 0 3 |
| Minor produce .. Money value. | .. | 95 | .. | .. | 275 | .. |
| Total .. | .. | 4,336 | .. | .. | 3,198 | .. |
| *Presidency Total.* | | | | | | |
| Timber .. .. .. .. C. ft. | 31,185 | 7,587 | 0 3 11 | 64,003 | 8,989 | 0 2 3 |
| Firewood .. .. .. „ | 18,780 | 1,515 | 0 1 3 | 43,945 | 1,652 | 0 0 7 |
| Bamboos .. .. .. .. No. | 55,491 | 452 | 0 0 2 | 24,320 | 289 | 0 0 2 |
| Minor produce .. Money value. | .. | 524 | .. | .. | 1,020 | .. |
| Grand Total .. | .. | 10,078 | .. | .. | 11,950 | .. |

The total amount of sales shows an increase of nearly Rs. 2,000. It is noticeable chiefly in Gódávari, and was due to stricter supervision exercised by the drift wood inspector and to the credit during the year of the sale-proceeds of some drift timber unsold in previous years.

47. In accordance with the circular from the Inspector-General of Forests, No. 6, dated 5th March 1897, the value of produce removed under rights or free grants is shown in the following statement:—

| | Timber. | | Fuel. | | Bamboos. | | Minor produce. | Grazing. | Total value. |
|---|---|---|---|---|---|---|---|---|---|
| | Cubic feet. | Value. | Cubic feet. | Value. | Number. | Value. | Value. | Value. | |
| *By Right-holders.* | | Rs. | | Rs. | | Rs. | Rs. | Rs. | Rs. |
| Northern Circle .. .. | 1,311 | 94 | 257,510 | 4,828 | 20,489 | 128 | 38,450 | 700 | 44,200 |
| Central Circle .. .. .. | .. | .. | .. | .. | .. | .. | 356 | .. | 356 |
| Southern Circle .. .. | 391 | 27 | 31 | 2 | 1,125 | 3 | 432 | 829 | 1,293 |
| Total .. | 1,702 | 121 | 257,541 | 4,830 | 21,614 | 131 | 39,238 | 1,529 | 45,849 |
| *By Free-grantees.* | | | | | | | | | |
| Northern Circle .. .. | 38,010 | 2,910 | .. | .. | 73,046 | 336 | 605 | 129 | 3,980 |
| Central Circle .. .. .. | 37,476 | 3,268 | 400 | 25 | 70,270 | 426 | 840 | 74 | 4,633 |
| Southern Circle .. .. | 7,465 | 811 | 6,812 | 429 | 14,645 | 189 | 125 | .. | 1,554 |
| Total .. | 82,951 | 6,989 | 7,212 | 454 | 1,57,961 | 951 | 1,570 | 203 | 10,167 |

*Note.*—The value under grazing shown above is exclusive of free grazing and grass removals allowed during drought in the affected districts.

As usual free grants of forest produce were allowed to poor ryots whose houses were burnt by fires or demolished by floods. During the year under report free grants of building materials were made for construction of famine kitchens. No produce was granted on free permit in the districts of Chingleput, Tanjore and Madura.

## CHAPTER IV.—FINANCIAL RESULTS.

48. The financial results of the forest year for the Presidency compared with 1895–96 show a decrease in the net revenue of Rs. 97,602.

The details according to circles are shown in the following table:—

| Forest year. | Circle. | Revenue. | Expenditure. | | | Net results. |
|---|---|---|---|---|---|---|
| | | | A. "Conservancy and works." | B. "Establishments." | Total. | |
| | | Rs. | Rs. | Rs. | Rs. | Rs. |
| 1895-96 | Northern | 7,23,859 | 1,68,443 | 2,15,434 | 3,83,877 | + 3,39,982 |
| | Central | 9,39,733 | 2,79,773 | 2,81,222 | 5,60,995 | + 3,78,738 |
| | Southern | 5,04,038 | 2,64,609 | 2,59,507 | 5,24,116 | — 20,078 |
| | Total | 21,67,630 | 7,12,825 | 7,56,163 | 14,68,988 | + 6,98,642 |
| 1896-97 | Northern | 5,97,422 | 2,42,025 | 2,23,255 | 4,65,280 | + 1,32,142 |
| | Central | 9,48,547 | 3,06,570 | 2,78,212 | 5,84,782 | + 3,63,765 |
| | Southern | 6,42,948 | 2,79,605 | 2,58,210 | 5,37,815 | + 1,05,133 |
| | Total | 21,88,917 | 8,28,200 | 7,59,677 | 15,87,877 | + 6,01,040 |

The gross receipts exceeded those of the previous year by Rs. 21,287 and the variations are explained as follows:—

*Departmental working.*

(1) Timber + Rs. 14,548. Due to the sale of timber from Karimpoya reserve in *South Malabar* and of the previous year's balance in *North Malabar*.

(2) Fuel + Rs. 25,787. The result of fuel supply to the Madras and South Indian Railways in *Salem* and *South Arcot*.

(3) Bamboos + Rs. 7,061. Supplies of bamboos to the Ordnance Department for lance staves, &c.

(4) Sandalwood — Rs. 5,698. Sales were withheld in consequence of the fall in the Bombay market.

(5) Minor produce + Rs. 15,891. Derived from departmental collection of catechu in *South Canara* and miscellaneous produce in *North Coimbatore*.

*Private removals.*

(6) Timber + Rs. 3,628. Explanation unnecessary.

(7) Fuel — Rs. 30,597. The departmental supply of railway fuel contributed to the deficit but the famine was the chief cause.

(8) Bamboos — Rs. 16,525. The drought and consequent agricultural distress in the Northern Circle affected the demand and fewer bamboos were extracted from the Walayar reserve in *South Malabar*.

(9) Grazing + Rs. 35,858. The increase was general throughout the Presidency, explanation has been afforded under grazing.

(10) Other produce — Rs. 1,04,559. Decrease entirely due to the famine and drought; the crops were poor and the *Cassia auriculata* sales were low.

(11) Confiscated wood and miscellaneous revenue + Rs. 75,893. Principally the purchase money for lands opened out for coffee cultivation in the Anamalais in *South Coimbatore*.

The expenditure under "Conservancy and Works" increased by Rs. 1,15,375. The excess of Rs. 11,808 under "I." corresponds to the increased revenue. The cost of temporary establishments and percentage of collections paid to permit-issuing officer explain the increase of Rs. 8,910 under "II." Under live-stock, stores, &c., there was an increase of Rs. 12,769 due to cost of establishments engaged in the capture of elephants in the Southern Circle. The supply of tents to different officers accounts for the balance. The outlay upon communications and buildings exceeded that of the previous year by Rs. 27,750; details have been already given in other parts of the report. The expenditure upon improvement and extension of forests, VIII, increased by Rs. 34,587, the greater part of which was the cost of the Survey of India. Miscellaneous expenditure rose by Rs. 23,274 consequent upon refunds in the Northern Circle. The total difference in the cost of establishments only amounted to Rs. 3,514 being increased official postage and carriage of records.

The following districts contributed chiefly to the net surplus: *Salem* over 20 per cent., *Bellary* 13, *Nellore* 11, *North Arcot* 10 and *South Coimbatore* over 9.

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## CHAPTER V.—IMPORTANT ADMINISTRATIVE CHANGES.

49. *Realization of Revenue from the Usufruct of Toddy-yielding Trees in the Reserved Forests and Government Waste and Poramboke Lands.*—This question received careful consideration during the year under report. The system of selling by public auction the lease of the usufruct of the toddy-yielding trees was superseded in several districts by that of levying a fixed fee of 4 annas per tree for the usufruct together with the tree-tapping fee levied by the Abkári Department. The relative merits of the two systems and the reasonableness of the rate were discussed at length and Government has finally decided that the ordinary rate should be 4 annas which may be raised to 8 annas with the sanction of the Board.

50. *Modification in the System of Grazing Fees.*—The only modification in the system of grazing fees was the imposition of special higher rates in special tracts in the case of cattle kept in large numbers for breeding purposes or for profit. Detailed proposals specifying the areas in which the levy of higher rates of fees are recommended were submitted to Government during the year and sanction in the case of the Southern Circle has since been received. With reference to the remark made by the Government of India in reviewing the Forest Administration Report of this Presidency for 1894–95, the question of the feasibility of extending to other districts the parcellaire system of grazing which has been working in *Kistna* was under the consideration of the Board. Government has since been informed that, excepting in *Kurnool*, where the introduction of the system is being arranged for, and in *Nellore*, where the system is being tried, it is not advisable at present to attempt any change in the districts, save such as will follow from the adoption of the rules sanctioned by Government during the year for the regulation of grant of permits for grazing in reserved forests. These provide that the reserved forests of a district shall be divided into grazing blocks which may consist of one reserve or several or even part of a reserve, the size of the blocks being left to the discretion of the district authorities. As regards grazing in special tracts, special forms of permits have since been approved.

51. *Working of the Department—Improvement of Forest Growth and the Wants of the People.*—The special attention of all Collectors was drawn to the instructions of Government in the matter of safeguarding the interests of the ryots when making arrangements for the sale of forest produce and particularly against levying prohibitive prices upon leaves required for use as manure or upon small timber for domestic purposes. Reports were, at the same time, called for from all Collectors as to whether any modification was required in the working of minor produce in their districts. From the replies that have since been received, it appears that the instructions of Government above referred to have had the desired effect of removing any hardships that might have accrued by leasing out small items of minor produce to uncontrolled contractors. A considerable number of items is reported to have been removed from the sale lists and District officers should continue to devote particular attention to this subject. Free gleaning is generally permitted in coupes after removal of marketable

produce. Depôts have been established in *Salem* and *South Arcot* to meet local fuel requirements, and in the latter district bamboo planting has been undertaken for purely local supply. With the system of located fellings, which is now being gradually introduced in all districts, and which during the year extended over more than 16,700 acres, improvement of forest growth will undoubtedly take place and any hardship resulting from temporary closure to grazing of the coupes will be more than compensated by the improved growth and quality of the grass, &c. The required information on the improvement of standing growth and the efforts made to encourage it is given in paragraphs 30 and 31 of chapter II.

52. *Rules under the Forest Act.*—Timber Transit rules under sections 35 and 36 of the Forest Act for the districts of *Ganjám*, *Kurnool* and *South Coimbatore* and rules for regulating transit of sandalwood in *North Coimbatore* and the management of forest and waste lands in the *Saptur estate*, *Madura* district, were sanctioned during the year. Transit rules for *Vizagapatam* have since been published and those for the districts of *South Canara*, *Cuddapah* and *Kistna* submitted since the close of the year await the sanction of Government. It was found that there is at present no necessity for Timber Transit rules in the *North Arcot* district and the old rules were accordingly cancelled. Revised rules to regulate the collection and disposal of drift wood and drift timber in the Gódávari river were also issued during the year as also revised lists of classified trees and the seigniorage rates fixed for each. The Forest Manual was finally revised by the Board and awaits the approval of Government.

53. *Working of the rules under section 26 of the Forest Act.*—This subject is not noted by the Collectors of *Kistna*, *North Coimbatore* and *North Malabar*. In *South Malabar* the rules scarcely affect the people as nearly all the lands not included in reserves belong to private owners. In *Ganjám* the rules offered considerable relief to the people in obtaining produce for their domestic and agricultural requirements and the people are reported not to have abused the privilege. In *Vizagapatam* and *Gódávari* some difficulty was experienced in working rule 7 of the rules; in the former district the ryots complained that the concessions do not go far enough and that only worthless trees are excluded from the classified lists. In the latter district the difficulty lay in distinguishing produce brought for sale from that brought for domestic use. It is reported that in *Gódávari* and *Kurnool* there is a tendency to abuse the privileges, timber being deliberately cut for sale and other non-agricultural purposes. It is doubtful whether the new rules really added to the facilities for the irregularities which appear to be of old standing. In *Bellary* the rules worked satisfactorily; minor breaches such as cutting down babul saplings for goat browsing and pollarding of babul trees for fencing were promptly stopped. In South Arcot it is reported the ryots have not availed themselves to any extent of the privileges accorded by the rules; the reason, given, is their ignorance of them. This will remedy itself. In *Anantapur* and *North Arcot* the privileges were extensively exercised and there were no abuses. In all the other districts the rules worked satisfactorily. It is reported that in *South Canara* the Wargdars are inclined to take up on darkhast waste lands which have been excluded from reservation to supply free produce to the villagers.

54. *Coffee cultivation in reserved forests.*—In *Salem* twenty-three leases have been granted to planters—two during 1895–96 and twenty-one during the year under report—for cultivating plots of land on the Shevaroys. The total extent of these leases as per final sketches amounts to 2,930 acres. Out of the total demand of Rs. 26,553 on account of the value of tree growth on the lands, Rs. 12,180 were realized during the year under report and Rs. 2,446 in the previous year. The balance is due only after 1st December next. The survey of the lands covered by five other applicants and the execution of the final lease deeds in respect thereof remained to be completed. The question of opening the Yelagiris and the Kollemalais to coffee cultivation is under consideration. Proposals for allowing cultivation in Kudrakote in *North Malabar* on leases similar to those on the Anamalais are also under consideration. In *South Coimbatore* the conditions and rules under which lands are to be leased on the Anamalais for planting purposes were decided, and the maximum of 1,000 acres for each applicant is being enfored. Twelve of the original applicants have taken up 11,968 acres at the upset price of Rs. 5 per acre without the land being subjected to public auction. Under the auction system there was only one application for two blocks of 1,000 acres each. The form of the lease is awaiting the final approval of Government.

55. *Tours of Forest Member.*—The Honourable Mr. J. Sturrock was the Forest Member of the Board of Revenue throughout the year. He visited the districts of *Madura*, *Tinnevelly*, *Trichinopoly*, *Nellore*, *Chingleput*, *North Arcot* and the *Nilgiris*. In August 1896 he proceeded to *Nellore* and visited the Mica mines. A portion of the Palmanér range and the departmental coupes near Ambúr in North Arcot were inspected in March last. In May and June he inspected the forests of the Nilgiris and held a conference with the Collector and District Forest-officer, at which various matters of forest interest were discussed.

56. *Conservators' Inspection.*—The usual statement showing the names of Conservators that held charge of the three circles during the year, the time spent by them in camp and the names of districts visited or inspected is presented below :—

| Circle. | Names of Conservators. | Number of days in charge. | Number of days spent in camp. | Districts visited. | Districts for which inspection notes were submitted to the Board. | District Forest-offices inspected. |
|---|---|---|---|---|---|---|
| Northern .. | Mr. A. W. Peet .. | Whole year. | 183 | All the districts except Kurnool. | Vizagapatam .. | Ganjám, Vizagapatam, Kistna and Anantapur. |
| Central .. | „ E. P. Popert .. | Do. | 173 | All the districts except Tanjore. | .... | All District Forest-offices. |
| Southern .. | „ E. D. M. Hooper .. | Do. | 269 | All the districts of the Circle. | South Canara, North Malabar and the Nilgiris. | Do. do. |

Mr. Peet made, under orders from the Board, thorough inspection of the Agency tracts proposed for further reservation in Vizagapatam. His visit to Bellary was made for the purpose of conferring with the Collector on famine arrangements. The forests in all the districts under his charge except those of *Tanjore* and *Nellore* were inspected by Mr. Popert. In *South Arcot* he visited the plantations and in *Nellore* the Mica mines. His visit to *Salem* was made chiefly with a view to report in consultation with the Collector on the question of over reservation in the district. Mr. Hooper made detailed inspection of the *South Canara*, *North Malabar*, *Nilgiris*, *Coimbatore* and *Tinnevelly districts*.

57. *Touring of District Forest-officers.*—More than half the year was spent in camp by District Forest-officers except Vizagapatam, Chingleput, Nilgiris and Madura. Mr. Hayne was in charge of Chingleput for 246 days but was unable owing to illness to spend more than 85 days in camp. The touring of the District Forest-officer, Nilgiris and Madura, fell short of the prescribed minimum only by 41 and 8 days, respectively; the District Forest-officer, Nilgiris, was unable to complete the minimum, as he was engaged at head-quarters in examination of records and in preparing the case for the Nilgiri-Mysore boundary dispute.

58. *Inspection of Range offices by District Forest-officers.*—The ranges of all districts, except Kurnool, Nellore, Chingleput, South Arcot, South Malabar, North Coimbatore and Madura were inspected twice during the year. In these districts some of the Range offices were inspected only once.

59. *Audit of the accounts of District Forest-offices.*—The accounts of all District Forest-offices, except Vizagapatam, Kurnool, Trichinopoly, Tanjore, Nilgiris and North and South Coimbatore were audited during the year as usual by the Local Fund Inspecting staff of the Accountant-General's office.

60. *Forest school.*—Two Deputy Rangers from the Southern Circle—one from the Northern Circle and one from the Central Circle—were deputed during the year to the Forest school and one Deputy Ranger returned from the school to the Southern Circle with a Ranger's certificate.

61. *Permanent Establishment.*—During the year under report two officers—Messrs. J. S. Scot and C. B. Dawson—arrived from England and were posted to do work under the immediate supervision of the District Forest-officers, Cuddapah and Tinnevelly, respectively. Mr. Brougham, Deputy Conservator, 3rd grade, retired from the service

on the 15th January 1897, and Assistant Conservator Mr. F. C. L. Cowley-Brown was promoted permanently to the grade of Deputy Conservator in the vacancy. The sanction of the Secretary of State for India to the scheme for the reorganisation of the subordinate executive staff was received in February 1897. The scale of establishment fixed under this sanction for the whole Presidency is 106 rangers, 199 deputy rangers and foresters and 980 guards, and the maximum scale is to be worked up to gradually during three years. Thus to a portion of the sanction effect was given during the last six months of the year, and the following statement exhibits circlewar the scale sanctioned for the official year 1897–98 :—

| Circle. | Rangers on Rupees. | | | | | | | Deputy Rangers on Rupees. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 150. | 125. | 100. | 80. | 60. | 50. | Total number. | 40. | 35. | 30. | Total number. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Northern Circle .. .. .. | .. | .. | .. | .. | .. | .. | 26 | 5 | 6 | 7 | 18 |
| Central „ .. .. .. | .. | .. | .. | .. | .. | .. | 30 | 7 | 2 | 12 | 21 |
| Southern „ .. .. .. | .. | .. | .. | .. | .. | .. | 34 | 7 | 6 | 7 | 20 |
| Total .. | 3 | 5 | 9 | 15 | 22 | 36 | 90 | 19 | 14 | 26 | 59 |

| Circle. | Foresters on Rupees. | | | | Forest guards on Rupees. | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25. | 20. | 15. | Total number. | 12. | 10. | 9. | 8 | 7. | 6. | Total number. |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Northern Circle .. .. .. | 2 | 17 | 21 | 40 | 14 | 23 | 45 | 203 | .. | .. | 285 |
| Central „ .. .. .. | 2 | 19 | 21 | 42 | 14 | 22 | 14 | 345 | .. | .. | 395 |
| Southern „ .. .. .. | 1 | 20 | 26 | 47 | 18 | 25 | 40 | 108 | 40 | 69 | 300 |
| Total .. | 5 | 56 | 68 | 129 | 46 | 70 | 99 | 656 | 40 | 69 | 980 |

Difficulty was experienced in finding qualified candidates for the posts in the higher and lower grades, even for the partial increase and special exemptions had to be sought for.

62. *Conduct and work of the establishment.*—The conduct and work of the subordinate executive staff still leave much room for improvement.

In the *Northern Circle* the services of a Ranger in Vizagapatam were dispensed with for physical unfitness and two temporary Foresters were removed, one for disobedience of orders and the other for incompetence; in *Gódávari* one Forester was suspended.

In *Kurnool* one Range officer (a Forester) was dismissed and the case of two others was under consideration. One Range officer in *Ganjám* was dismissed and another in Anantapur suspended. In the *Central Circle* one Deputy Ranger in *Nellore* was dismissed and two were reduced. In *South Arcot* two were under suspension, one of whom has since been reinstated. Four Rangers were reduced in *Salem*, the reduction in the case of three being only temporary, and one Deputy Ranger was suspended. In the *Southern Circle* one Ranger and three Deputy Rangers were dismissed, and one Forester and a Deputy Ranger suspended. Two Rangers were reduced temporarily to Deputy Ranger's grade for neglect of duty.

As regards the protective staff, several guards and watchers were suspended or removed for misconduct and gross neglect of duty. Two guards were convicted—one of writing false diaries and libelling the Range officer in anonymous petitions and the other of criminal breach of trust.

63. *Health of the Establishment.*—In the *Northern Circle* the districts of *Ganjám*, *Vizagapatam*, *Gódávari* and *Kurnool* continued to be unhealthy. There was a great deal of fever in all these districts, with the addition of dysentery and cholera in the first-named district. In the *Central Circle* the health of the establishment was far from good in *South Arcot*, *North Arcot* and *Salem*; and in the *Southern Circle* bad in *Malabar* and *South Coimbatore* and indifferent in *Nilgiris*, *Madura* and *Tinnevelly*.

64. *Service books.*—These are reported to have been maintained and verified in all the districts.

65. *Inventory of valuable stock.*—Stock registers are reported to have been kept and verified in all districts except *Nellore*, *South Coimbatore* and *Tinnevelly*. Information for these districts has not been furnished by the Collectors concerned.

66. *Elephants.*—Fifteen elephants were captured during the year—one in *South Coimbatore*, one in *South Malabar* and thirteen in *North Malabar*. The elephant captured in *South Malabar* was sold and of the thirteen in *North Malabar* one was shot in the pit and two died. The number of elephants borne on the strength of the department is 62 as per Form No. 63.

67. *Rain-gauges.*—Rain-gauges readings have been properly recorded in *Vizagapatam*, *Gódávari*, *Kistna*, *Kurnool*, *South Arcot*, *Tinnevelly*, *Madura*, *North and South Coimbatore* and *North and South Malabar*.

68. *Iron industry in the Salem district.*—Enquiries have been instituted as to whether a sustained supply of charcoal in sufficiently large quantities and at a comparatively low rate can be furnished so as to enable the iron smelters to compete with the imports from Europe. The result is awaited.

69. *Madgole Estate.*—The proposal to have the estate forests managed by Government has, with the permission of Government, been withdrawn and the charge of the management has been handed over to the Dewan of the Estate.

70. *Work and services of superior officers—Northern Circle.*—Mr. Peet reports well of Mr. Lushington particularly with reference to his management of grazing, attention to forest settlement and preparation of instructions for subordinates. The Collector (*Kistna*) considers "that the year's work does great credit to Mr. Lushington." Mr. Lodge worked as usual well. Mr. Thornton showed great activity in making himself acquainted with his district and devoted particular attention to check of timber in river transit. The other District Forest-officers worked satifactorily. With reference to Extra Assistant Conservators, Mr. Ward did excellent work during the famine. Mr. Nallaswami Nayudu did very good work in *Kistna* and Mr. Hearsey displayed his usual activity in a trying charge.

*Central Circle.*—Mr. Popert, the Conservator, remarks: "The work of all gazetted officers in the circle has, as usual, been thorough and the Conservator is indebted to District Forest-officers for the able and zealous management of their charges. Mr. Cowley-Brown, although a junior officer, successfully carried on the work in the Salem district during the absence of Mr. Brasier and deserves special mention. Mr. Stanbrough is entitled to credit for the bamboo planting operations which were scattered over the district and entailed constant supervision. Mr. Brougham retired during the year after more than thirty years' good service; in him Government has lost an officer with a vast knowledge of forest products and their uses. It is entirely due to his careful and tactful management that the department has been enabled to retain the Yanadis at Srîharikóta, without whom it would be almost impossible to carry on work. Mr. Hayne's health completely gave way in the early part of 1897, and he was compelled to take two years' furlough."

*Southern Circle.*—Mr. Hooper states that "all District Forest-officers have worked energetically and to the satisfaction of their Collectors."

# APPENDICES.

## ANNUAL FORM No. 44.

*Forest Department, Madras Presidency.*

AREA of reserved forests and reserved lands, 1896–97.

| District. | Area of reserved forests. | | | | | | Area of reserved lands. | | | | | | Total area of reserved forest and reserved lands on 30th June 1897 in square miles. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area on 1st July 1896. | | Added during the year. | Excluded during the year. | Area on 30th June 1897. | | Area on 1st July 1896. | | Added during the year. | Excluded or transferred to other heads. | Area on 30th June 1897. | | |
| | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| *Northern Circle.* | | | | | | | | | | | | | |
| Ganjám .. .. .. .. | 84,816 | 133 | 13,654 | 4,953 | 93,517 | 146 | 272,762 | 426 | 4,047 | 14,277 | 262,532 | 410 | 556 |
| Vizagapatam .. .. .. | 55,625 | 87 | 31,514 | .. | 87,139 | 136 | 209,822 | 328 | 22 | 31,360 | 178,484 | 279 | 415 |
| Gódávari .. .. .. .. | 405,578 | 634 | 112,881 | .. | 518,459 | 810 | 218,500 | 341 | 4,199 | 131,499 | 91,200 | 143 | 953 |
| Kistna .. .. .. .. | 410,357 | 641 | 17,043 | 8,692 | 418,708 | 654 | 365,332 | 571 | 14,412 | 53,557 | 326,187 | 510 | 1,164 |
| Kurnool .. .. .. .. | 1,118,833 | 1,748 | 37,127 | .. | 1,155,960 | 1,806 | 317,143 | 496 | 58,126 | 39,462 | 335,807 | 525 | 2,331 |
| Bellary .. .. .. .. | 289,311 | 452 | 10,906 | 8,759 | 291,458 | 456 | 118,211 | 185 | .. | 9,379 | 108,832 | 170 | 626 |
| Anantapur .. .. .. | 281,523 | 440 | .. | 1,997 | 279,526 | 437 | 49,542 | 77 | .. | .. | 49,542 | 77 | 514 |
| Total .. | 2,646,043 | 4,135 | 223,125 | 24,401 | 2,844,767 | 4,445 | 1,551,312 | 2,424 | 80,806 | 279,534 | 1,352,584 | 2,114 | 6,559 |
| *Central Circle.* | | | | | | | | | | | | | |
| Cuddapah .. .. .. .. | 982,575 | 1,535 | 28,938 | 2,489 | 1,009,024 | 1,576 | 525,790 | 822 | 18,322 | 42,447 | 501,665 | 784 | 2,360 |
| Nellore .. .. .. .. | 278,944 | 436 | 71,770 | 7,303 | 343,411 | 537 | 144,062 | 225 | 22,820 | 73,326 | 93,556 | 146 | 683 |
| Chingleput .. .. .. | 128,029 | 200 | 1,738 | 18 | 129,749 | 203 | 24,289 | 38 | 380 | 18,532 | 6,137 | 10 | 213 |
| North Arcot .. .. .. | 636,732 | 995 | 16,614 | .. | 653,346 | 1,021 | 87,315 | 136 | 10,300 | 25,181 | 72,434 | 113 | 1,134 |
| South Arcot .. .. .. | 323,017 | 505 | 54,064 | 10,231 | 366,850 | 573 | 175,151 | 274 | 2,515 | 86,870 | 90,796 | 142 | 715 |
| Salem .. .. .. .. | 783,749 | 1,224 | 5,702 | 2,963 | 786,488 | 1,229 | 153,517 | 240 | 1,906 | 20,805 | 134,618 | 210 | 1,439 |
| Trichinopoly .. .. .. | 122,816 | 192 | 1,121 | 2,720 | 121,217 | 189 | 26,250 | 41 | 45,032 | 1,926 | 69,356 | 108 | 297 |
| Tanjore .. .. .. .. | 12,160 | 19 | 117 | 858 | 11,419 | 18 | .. | .. | 100 | .. | 100 | .. | 18 |
| Total .. | 3,268,022 | 5,106 | 180,064 | 26,582 | 3,421,504 | 5,346 | 1,136,374 | 1,776 | 101,375 | 269,087 | 968,662 | 1,513 | 6,859 |
| *Southern Circle.* | | | | | | | | | | | | | |
| South Canara .. .. .. | 72,795 | 114 | .. | 5 | 72,790 | 114 | 652,482 | 1,020 | 23,544 | 39,396 | 636,630 | 995 | 1,109 |
| Malabar, North .. .. .. | 100,722 | 157 | .. | .. | 100,722 | 157 | 73,532 | 115 | 1,575 | .. | 75,107 | 117 | 274 |
| Do. South .. .. .. | 25,173 | 39 | 54 | .. | 25,227 | 39 | 184,977 | 289 | .. | 57 | 184,920 | 289 | 328 |
| Nilgiris .. .. .. .. | 228,442 | 357 | 556 | 124 | 228,874 | 358 | 60,569 | 95 | 430 | 1,865 | 59,134 | 92 | 450 |
| Coimbatore, North .. .. | 549,760 | 859 | 130,185 | 6,047 | 673,898 | 1,053 | 549,086 | 858 | 1,120 | 185,160 | 365,046 | 570 | 1,623 |
| Do. South .. .. | 416,947 | 651 | 1,392 | 47 | 418,292 | 654 | 3,986 | 6 | 97 | 2,101 | 1,982 | 3 | 657 |
| Madura .. .. .. .. | 357,886 | 559 | 14,939 | 13,017 | 359,808 | 562 | 58,144 | 90 | 2,612 | 23,096 | 37,660 | 59 | 621 |
| Tinnevelly .. .. .. | 262,920 | 411 | 1,831 | 2,192 | 262,559 | 410 | 10,896 | 17 | 1,707 | 2,115 | 10,488 | 17 | 427 |
| Total .. | 2,014,645 | 3,147 | 148,957 | 21,432 | 2,142,170 | 3,347 | 1,593,672 | 2,490 | 31,085 | 253,790 | 1,370,967 | 2,142 | 5,489 |
| Grand Total .. | 7,928,710 | 12,388 | 552,146 | 72,415 | 8,408,441 | 13,138 | 4,281,358 | 6,690 | 213,266 | 802,411 | 3,692,213 | 5,769 | 18,907 |

FORM

*Forest*

STATEMENT showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Northern* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. A. P. |
| Ganjám .. | 133 | No. 21, dated 11th January 1897. | Kaliamba .. .. .. | 14 | .. | .. | .. |
| | | No. 309, dated 2nd July 1896. | Chodiapalli .. .. .. | 1 | | | |
| | | No. 692, dated 3rd December 1896. | Bodochendana .. .. .. | 2 | | | |
| | | No. 452, dated 10th September 1896. | Sandosalia .. .. .. | 3 | | | |
| | | No. 443, dated 5th September 1896. | Agasti Nowgam .. .. | 1 | | | |
| | | | Total .. | 21 | .. | .. | .. |
| Vizagapatam. | 87 | No. 330, Rev., dated 14th July 1896. | Sinnivaram .. .. .. | 49 | .. | .. | .. |
| | | | Total .. | 49 | .. | .. | .. |
| Gódávari .. | 780 | No. 705, Rev., dated 9th December 1896. | Tirumalayapaliem .. .. | 8 | .. | .. | .. |
| | | No. 636, Rev., dated 16th November 1896 | Upputeru blocks Nos. I and II | 22 | | | |
| | | | Total .. | 30 | .. | .. | .. |

No. 45.

*Department.*

incurred on, Forest Settlements during 1896–97.

| Areas undergoing settlement. | | | | | | Estimate of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle.* | | | | | | |
| | SQ. MLS. | | SQ. MLS. | RS. | RS. | SQ. MLS. |
| Baiballi .. .. .. .. | 34 | .... | .. | 5,726 | .. | |
| Darpangia .. .. .. | 25 | .... | .. | .. | .. | |
| Gullery .. .. .. .. | 37 | .... | .. | .. | .. | |
| Ambozora .. .. .. | 50 | .... | .. | .. | .. | |
| Gundribadi and extensions .. | 34 | .... | .. | .. | .. | |
| Gogodo .. .. .. .. | 24 | .... | .. | .. | .. | |
| Paichalia .. .. .. | 21 | .... | .. | .. | .. | |
| Brahmanosai .. .. .. | 13 | .... | .. | .. | .. | |
| Kurcholi .. .. .. | 9 | .... | .. | .. | .. | |
| Kriamba .. .. .. | 36 | .... | .. | .. | .. | |
| Kuddapada .. .. .. | 6 | .... | .. | .. | .. | |
| Rogada .. .. .. .. | 25 | .... | .. | .. | .. | |
| Pippalapanka .. .. .. | 12 | .... | .. | .. | .. | 85 |
| Mundapetta .. .. .. | 11 | .... | .. | .. | .. | |
| Hukuma .. .. .. | 7 | .... | .. | .. | .. | |
| Raipada .. .. .. | 10 | .... | .. | .. | .. | |
| Dheppaguda .. .. .. | 2 | .... | .. | .. | .. | |
| Bainamari .. .. .. | 6 | .... | .. | .. | .. | |
| South Mohiri .. .. .. | 6 | .... | .. | .. | .. | |
| Chatrapuram .. .. .. | 1 | .... | .. | .. | .. | |
| Podra .. .. .. .. | 1 | .... | .. | .. | .. | |
| Napier's park .. .. .. | | | | | | |
| Rankuhunumanthapuram .. | 2 | .... | .. | .. | .. | |
| Teliki .. .. .. .. | 24 | .... | .. | .. | .. | |
| Dowgam .. .. .. | 4 | .... | .. | .. | .. | |
| Ramagoda .. .. .. | 10 | .... | .. | .. | .. | |
| Total .. | 410 | | .. | 5,726 | .. | 85 |
| Kadagandi .. .. .. | 166 | 1. Extension block to Bharnakonda. | | | | |
| Dharakonda .. .. .. | | 2. Extension blocks Nos. I and II to Antikonda reserve. | | | | |
| Bharnakonda .. .. .. | | 3. Extension block to Kadagandi reserve block No. I. | | | | |
| Bointi .. .. .. .. | | 4. Extension block to Kadagandi reserve block No. II. | | | | |
| | | 5. Redimkonda reserve extension. | 2 | 1,909 | .. | 111 |
| | | 6. Arlova reserve extension block No. 2. | | | | |
| | | 7. Arlova reserve extension block No. IV. | | | | |
| | | 8. Arlova reserve extension block No. 5. | | | | |
| | | 9. Sinnivaram reserve extension block. | | | | |
| | | 10. Boddapalem reserve .. | | | | |
| Total .. | 166 | Total .. | 2 | 1,909 | .. | 111 |
| 1. Kandikuppa .. .. | 14 | .... | .. | | | |
| 2. Jilugumilli .. .. | 5 | .... | .. | | | |
| 3. Dharbhagudem .. .. | 3 | .... | .. | | | |
| 4. Marlagudem .. .. | 4 | .... | .. | 6,096 | .. | 37 |
| 5. Beddadavole .. .. | 24 | .... | .. | | | |
| 6. Kopalli .. .. .. | 30 | .... | .. | | | |
| 7. Kovada .. .. .. | 30 | .... | .. | | | |
| 8. Papikonda .. .. .. | 33 | .... | .. | | | |
| Total .. | 143 | | .. | 6,096 | .. | 37 |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Northern* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. A. P. |
| Kistna .. | 637 | No. 405, dated 18th August 1896. | Narasayapalem .. .. .. | 2·3 | 8 | .. | .. |
| | | No. 105, dated 16th February 1897. | Nagarazupalli .. .. .. | 0·4 | 61 | .. | .. |
| | | No. 689, dated 3rd December 1896. | Putsanutula .. .. .. | 1·2 | 38 | .. | .. |
| | | No. 87, dated 11th February 1897. | Guttikonda extension No. 1 .. | 1·6 | 53 | .. | .. |
| | | No. 64, dated 2nd February 1897. | Do. do. ,, 6 .. | 1·6 | 61 | .. | .. |
| | | No. 261, dated 23rd April 1897. | Andugulapad .. .. .. | 3·2 | 76 | .. | .. |
| | | No. 716, dated 12th December 1896. | Mutukur extension No. 3 .. | 4·3 | 38 | .. | .. |
| | | No. 504, dated 1st October 1896. | Pasvemula extension No. 1 .. | 0·5 | 23 | .. | .. |
| | | No. 504, dated 1st October 1896. | Pasvemula extension ,, 3 .. | 0·4 | 23 | .. | .. |
| | | No. 63, dated 2nd February 1897. | Adaviladivi extension ,, 1 .. | 0·2 | 53 | .. | .. |
| | | No. 426, dated 2nd June 1897. | Bollapalli extension ,, 2 .. | 8 | 83 | .. | .. |
| | | No. 347, dated 18th May 1897. | Darvemula .. .. .. | 1 | 83 | .. | .. |
| | | | Total .. | 24·7 | 600 | .. | 21 7 0 |
| Kurnool .. | 1,748 | No. 691, dated 13th December 1896. | Mundlapad .. .. .. | 2 | .. | 2 | .. |
| | | No. 742, dated 22nd December 1896. | Yerrakondapalem .. .. | 14 | .. | 14 | .. |
| | | No. 24, dated 13th January 1897. | Kamalapuram .. .. .. | 3 | .. | 3 | .. |
| | | No. 28, dated 13th January 1897. | Pendikallu .. .. .. | 4 | .. | 4 | .. |
| | | No. 19, dated 11th January 1897. | Gundlakonda .. .. .. | 7 | .. | 7 | .. |
| | | No. 22, dated 13th January 1897. | Jonnagiri .. .. .. | 1 | .. | 25 | .. |
| | | No. 90, dated 13th February 1897. | Ganapavaram .. .. .. | 23 | .. | 23 | .. |

incurred on, Forest Settlements during 1896-97—*cont.*

| Areas undergoing settlement. | | | | | | Estimate of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | SQ. MLS. | | SQ. MLS. | RS. | RS. | SQ. MLS. |
| Kothur .. .. .. .. | 1 | .... | .. | 91 | .. | 363 |
| Tumurukodu No. 2 .. .. | 6 | .... | .. | 180 | .. | |
| Gollapudi .. .. .. | | | | | | |
| Vinukonda .. .. .. | 13 | .... | .. | 91 | .. | |
| Yellamanda No. 1 .. .. | 1 | .... | .. | 91 | .. | |
| Nizampatam .. .. .. | 10 | .... | .. | 91 | .. | |
| Gudimetla .. .. .. | 2 | .... | .. | 91 | .. | |
| Tumurucode No. 4 .. .. | 1 | .... | .. | 182 | .. | |
| Do. ,, 5 .. .. | | | | | | |
| Bandar Forest extension No. 1. | 1 | .... | .. | 91 | .. | |
| Bollapalli extension No. 1 .. | 6 | .... | .. | 91 | .. | |
| Do. ,, 3 .. | 4 | .... | .. | 91 | .. | |
| Do. ,, 8 .. | 3 | .... | .. | 91 | .. | |
| Takkellapad .. .. .. | 2 | .... | .. | 180 | .. | |
| Bandar Fort extension No. 2. | | | | | | |
| Narasayapalem do. ,, 1 | 1 | .... | .. | 180 | .. | |
| Do. do. ,, 2 | | | | | | |
| Potumerakaparra .. .. | 8 | .... | .. | 91 | .. | |
| Advuladiviparra .. .. | 4 | .... | .. | 91 | .. | |
| Pasvemula extension No. 4 .. | 4 | .... | .. | 91 | .. | |
| Kandipad .. .. .. | 1 | .... | .. | 91 | .. | |
| Veldurti .. .. .. | 7 | .... | .. | 91 | .. | |
| Janapad .. .. .. | 5 | .... | .. | 91 | .. | |
| Bapatla No. 3 .. .. | 1 | .... | .. | 91 | .. | |
| Guttikonda extension No. 7 .. | 3 | .... | .. | 91 | .. | |
| Amudalapalli .. .. .. | 2 | .... | .. | 90 | .. | |
| | | Gopuvanipalem extension No. 2. | 0·3 | 53 | .. | |
| | | Nizampatam extension No. 1 .. | 2·4 | 83 | .. | |
| | | Pullaripalem .. .. .. | 1·3 | 30 | .. | |
| | | Purlavallapalem .. .. | 1·8 | 68 | .. | |
| | | Muthayavalem extension No. 1 | 6 7 | 76 | .. | |
| | | Nayanipalli do. ,, 1 | 1·5 | 30 | .. | |
| | | Budavada do. ,, 1 | 0·9 | 76 | .. | |
| | | Do. do. ,, 2 | 0·9 | 76 | .. | |
| | | Do. do. ,, 3 | 0 5 | 76 | .. | |
| | | Venkatayapalem extension No. 3. | 2·7 | 76 | .. | |
| | | Venkatayapalem extension No. 6. | 1·7 | 76 | .. | |
| | | Kamipalli .. .. .. | 3·2 | 76 | .. | |
| | | Matsavaram .. .. .. | 1·8 | 45 | .. | |
| | | Vemavaram .. .. .. | 3·0 | 45 | .. | |
| | | Guttikonda extension No. 9 .. | 1·4 | 84 | .. | |
| | | Bollapalli extension ,, 7 .. | 3·5 | 76 | .. | |
| | | Mukkellapad .. .. .. | 1·9 | 53 | .. | |
| | | Muppalla .. .. .. | 7·6 | 37 | .. | |
| | | Kakirala extension No. 7 .. | 0·9 | 84 | .. | |
| | | Gangulakunta addition No. 1. | 0·1 | 53 | .. | |
| | | Do. ,, 2. | | | | |
| | | Do. ,, 3. | | | | |
| | | Darvemula extension No. 1 .. | 1·3 | 53 | .. | |
| | | Pasvemula do. ,, 5 .. | 0·4 | 45 | .. | |
| | | Goli .. .. .. .. | 6·4 | 45 | .. | |
| Total .. | 86 | | 52·2 | 3,775 | .. | |
| North Dhone .. .. .. | 22 | .... | .. | .. | 50 | |
| Sirvel addition No. 2. .. | 25 | .... | .. | 615 | 50 | |
| Do. ,, 3 .. | 18 | .... | .. | 108 | 50 | |
| Jaladurgam .. .. .. | 28 | .... | .. | .. | 50 | |
| Tamballapalli .. .. .. | 3 | .... | .. | .. | 45 | |
| Tokapalli .. .. .. | 2 | .... | .. | .. | 30 | |
| Millampalli .. .. .. | 5 | .... | .. | .. | 80 | |
| Uyyalavada addition .. .. | 33 | .... | .. | 553 | 678 | |
| Velugode .. .. .. | 69 | .... | .. | .. | 1,145 | |
| Maduva .. .. .. .. | 1 | .... | .. | .. | 15 | |
| Ambavaram .. .. .. | 16 | .... | .. | 16 | 240 | |
| Somidevipalli .. .. .. | 18 | .... | .. | .. | 270 | |
| Betamcherla .. .. .. | 16 | .... | .. | .. | 240 | |
| Nandyal addition No. 1 .. | 11 | .... | .. | 66 | 145 | |

Statement showing the Progress made in, and the expenditure-

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Northern* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. |
| Kurnool—*cont.* | .. | No. 262, dated 23rd April 1897. | Katarukonda .. .. .. | 4 | .. | 4 | .. |
| | | No. 436, dated 4th June 1897. | Peddapaya .. .. .. | 5 | .. | 5 | .. |
| | | | Total .. | 63 | .. | 87 | 1 6 1 |
| Bellary .. | 445 | No. 148, dated 10th March 1897. | Kuppigallu .. .. .. | 11 | .. | .. | .. |
| | | No. 186, dated 19th March 1897. | Kosigi .. .. .. .. | | | | |
| | | | Total .. | 11 | .. | .. | .. |
| Anantapur .. | 437 | .... | .... | .. | .. | .. | .. |
| | | | | | | | *Central* |
| Cuddapah .. | 1,535 | No. 445, dated 5th September 1896. | Ganugapenta extension .. | 12 | .. | .. | .. |
| | | No. 466, dated 13th September 1896. | Kalasapad extension .. .. | 8 | .. | .. | .. |
| | | No. 133, dated 1st March 1897. | Nigadi extension .. .. | 4 | .. | .. | .. |
| | | No. 157, dated 11th March 1897. | Tummalur extensions, A and B. | 4 | .. | .. | .. |
| | | No. 155, dated 11th March 1897. | Voruvoi .. .. .. | 3 | .. | .. | .. |
| | | No. 189, dated 19th March 1897. | Dasaripalle extensions, B, C and D. | 13 | .. | .. | .. |
| | | No. 188, dated 19th March 1897. | Vedurur .. .. .. | 1 | .. | .. | .. |
| | | No. 390, dated 26th May 1897. | Marella extension .. .. | 2 | .. | .. | .. |
| | | | Total .. | 47 | .. | .. | .. |

**incurred on, Forest Settlements during 1896–97—*cont.***

| Areas undergoing settlement. | | | | | | Estimate of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | SQ. MLS. | | SQ. MLS. | RS. | RS. | SQ. MLS. |
| Nandyal addition No. 2 .. | 20 | .... | .. | 319 | 200 | |
| Pyalakurti .. .. .. | 1 | .... | .. | .. | 15 | |
| .... | .. | Veludurti .. .. .. | 2 | .. | 30 | |
| .... | .. | Guvvalagunta .. .. .. | 27 | .. | 764 | |
| .... | .. | Eastern Nallamalai Block No. 1 of Cumbum taluk. | 20 | .. | .. | 312 |
| .... | .. | Eastern Nallamalai Block No. 2. | 33 | .. | .. | |
| .... | .. | Duddyala .. .. .. | 7 | .. | .. | |
| Total .. | 288 | | 89 | 1,677 | 4,097 | |
| Neraniki .. .. .. | 16 | Bellahumshi .. .. .. | 2 | | | |
| Molagavalli .. .. .. | 2 | Hampasagaram .. .. | 2 | .. | 153 | |
| Kodalu .. .. .. | 2 | Basarukodu .. .. .. | 2 | | | |
| Ubbalugandi extension .. | 2 | Bachigondunahalli .. .. | 3 | .. | .. | |
| Marutla .. .. .. | 5 | Chintalapalli, north .. .. | 2 | .. | .. | 359 |
| Kosigi .. .. .. .. | 1 | Do. south .. .. | 2 | .. | .. | |
| .... | .. | Koyalargatti extension .. | 1 | .. | .. | |
| .... | .. | Kullura, west .. .. .. | 2 | .. | .. | |
| .... | .. | Jittinakatti south-east extension. | 2 | .. | .. | |
| Total .. | 28 | | 18 | .. | 153 | |
| Golla .. .. .. .. | 11 | .... | .. | | | |
| Iyampalli .. .. .. | 2 | .... | .. | | | |
| Yemmihatty .. .. .. | 5 | .... | .. | | | |
| Pillelapalli .. .. .. | | | | | | |
| Iydakallu .. .. .. | 6 | .... | .. | | | |
| Shetturu .. .. .. | 7 | .... | .. | | | |
| Kondepalli .. .. .. | 7 | .... | .. | 601 | .. | |
| Khyrevu .. .. .. | 10 | .... | .. | | | |
| Narasampalli .. .. .. | 3 | .... | .. | | | |
| Ratnagiri .. .. .. | 3 | .... | .. | | | |
| Hottaibetta, north .. .. | 14 | .... | .. | | | |
| Do. south .. .. | | | | | | |
| Durgam extension .. .. | 9 | .... | .. | | | |
| Kaligera .. .. .. | | | | | | |
| Total .. | 77 | | .. | 601 | .. | |
| *Circle.*— | | | | | | |
| Chennupalle .. .. .. | | Neridikonda .. .. .. | | | | |
| Lankamalai extension .. | | Musalikunta .. .. .. | | | | |
| Horsleykonda extension .. | | Gundlakonda .. .. .. | 31 | .. | .. | |
| Palakonda .. .. .. | | Madhavaram extension, east and west. | | | | |
| Wongimalla .. .. .. | | | | | | |
| Sancherla extension .. .. | | Sibyala extension, north and south. | | 2,501 | .. | |
| Yerrappakonda .. .. | | | | | | |
| Kottakota Dasaripalli extension. | | | | | | |
| Idupalpaya extension .. .. | | | | | | |
| Ganganapalle extension .. | 605 | .... | .. | .. | .. | 204 |
| Yellutla extension .. .. | | | | | | |
| Sangasamudram .. .. | | | | | | |
| Gandlur .. .. .. | | | | | | |
| Marripad .. .. .. | | | | | | |
| Seshachelam extension .. | | | | | | |
| Katagalla extension .. .. | | | | | | |
| Vontimitta extension .. | | | | | | |
| Konarazupalle extension .. | | | | | | |
| Chitvel extension .. .. | | | | | | |
| Kanchelamoram extension .. | | | | | | |
| Palakonda extension .. .. | | | | | | |
| Total .. | 605 | | 31 | 2,501 | .. | |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Central* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. A. P. |
| Nellore .. | 425 | No. 203, dated 18th May 1896. | Udayagiri Veligondas .. | 94 | .. | .. | .. |
| | | No. 262, dated 13th June 1896. | Abbasahebipeta Gudipad Peddannalur. | 2 | .. | .. | .. |
| | | No. 385, dated 3rd August 1896. | Dubbagunta Rajavolu .. | 5 | .. | .. | .. |
| | | No. 404, dated 11th August 1896. | Veligondla .. .. .. | | | | |
| | | No. 439, dated 3rd September 1896. | Bhimavaram .. .. .. | | | | |
| | | No. 430, dated 28th August 1896. | Boyilacheruvilla .. .. | 1 | .. | .. | .. |
| | | No. 474, dated 17th September 1896. | Venadu .. .. .. .. | 3 | .. | .. | .. |
| | | No. 167, dated 15th March 1897. | Abbasahebepeta Gudipad, West | | | | |
| | | No. 224, dated 30th March 1897. | Manubolupad extension .. | 1 | .. | .. | .. |
| | | No. 225, dated 30th March 1897. | Chelamcherla extension .. | | | | |
| | | No. 270, dated 27th April 1897. | Anantasagaram A .. .. | 4 | .. | .. | .. |
| | | Do. .. | Do. B .. .. | | | | |
| | | No. 324, dated 13th May 1897. | Chakicherla, North .. .. | 2 | .. | .. | .. |
| | | No. 418, dated 1st June 1897. | Pernad .. .. .. .. | 4 | .. | .. | .. |
| | | | Total .. | 116 | .. | 2,130 | 19 0 4 |
| Chingleput.. | 200 | No. 284, dated 23rd June 1895. | Nemeli extension No. I .. | 1 | .. | .. | .. |
| | | No. 283, dated 23rd June 1896. | Paranur extension No. I .. | | | | |
| | | No. 481, dated 23rd June 1896. | Do. do. No. III .. | | | | |
| | | | Hunmantaputheri extension No. II. | | | | |
| | | No. 449, dated 8th September 1896. | Salur .. .. .. .. | 2 | .. | .. | .. |
| | | No. 598, dated 7th November 1896. | Gudalur .. .. .. | | | | |
| | | | Total .. | 3 | .. | .. | .. |
| North Arcot. | .. | No. 288, dated 24th June 1896. | Synagunta extensions A and B | 7 | .. | .. | .. |
| | | No. 382, dated 1st August 1896. | Putramadi or Airala extension. | 5 | .. | .. | .. |
| | | No. 657, dated 21st November 1896. | Jangalapalle .. .. .. | 5 | .. | .. | .. |
| | | No. 2, dated 4th January 1897. | Reddigunta .. .. .. | 4 | .. | .. | .. |
| | | No. 25, dated 13th January 1897. | Gundlapalle extension .. | 1 | .. | .. | .. |
| | | No. 310, dated 3rd July 1897. | Bommanaikampoliem .. .. | 1 | .. | .. | .. |
| | | No. 237, dated 6th June 1896. | Chases hill .. .. .. | 3 | .. | .. | .. |
| | | No. 414, dated 31st May 1897. | Parappamalai .. .. .. | 2 | .. | .. | .. |
| | | | Total .. | 28 | .. | .. | .. |

incurred on, Forest Settlements during 1896-97—*cont.*

| Areas undergoing settlement. | | | | | | |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | Estimate of areas in which settlement operations have not yet commenced. |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |

*Circle*—cont.

| | SQ. MLS. | | SQ. MLS. | RS. | RS. A. P. | SQ. MLS. |
|---|---|---|---|---|---|---|
| Duttalur .. .. .. | 7½ | Tammenapatam extension .. | 1 | | | 351 |
| Rapur-Velgondas extension A | 1½ | Yerukolla-Gundamadakole .. | 6 | | | |
| Do. do. B | 9¾ | Balayapalli .. .. .. | 1 | | | |
| Do. do. C | 4 | Korisakonda .. .. .. | 7 | | | |
| Veminabhi extension .. .. | ½ | Gudlakonda .. .. .. | } 10 | | | |
| Pottukonda extension .. | ¼ | Udayagiri-Veligonda extension. | | | | |
| Sriharikota .. .. .. | 40 | Vedanaparti .. .. .. | | | | |
| .... .. | | Rapur-Veligondla extension .. | 3 | | | |
| Peramanakondur .. .. | 1⅛ | Chintalapolem .. .. | } 2 | | | |
| Mahimalu .. .. .. | 16¼ | Chipinapi .. .. .. | | | | |
| Gavaravaram .. .. .. | 11⅛ | Rallakonda .. .. .. | | | | |
| | | Tirumalpad .. .. .. | } 4 | | | |
| | | Mogallur extension .. | | | | |
| | | Tenumalalalpur extension .. | | | | |
| | | Sydapuram extension A .. | | | | |
| | | Do. do. B .. | | | | |
| | | Chaganam extension .. .. | } 2 | | | |
| | | Cherlapalli extension .. .. | | | | |
| | 93 | | 36 | 2,530 | .. | |
| Ugumudi extension Nos. I, V and VI. | | Nandambakkam extension No. I .. .. .. .. | } 1 | 2,501 | .. | |
| Perumbakkam extension No. I. | | Meyyur extension No. I .. | | | | |
| Vallam extension No. II .. | | Do. ,, II .. | | | | |
| Melamaiyur .. .. .. | | Tirumalavoyal extension No. I | | | | |
| Koliyalam .. .. .. | | | | | | |
| Tandarai extension No. I. .. | 8 | | | | | |
| Kovilpidagai extension No. I.. | | | | | | |
| Nanmangalam extension Nos. I and II. | | | | | | |
| Tirumalavoyal extension No. II | | | | | | |
| Thirumani extension No. II .. | | | | | | |
| Tirukkalikundrum extension No. II. | | | | | | |
| Total .. | 8 | | 1 | 2,501 | .. | |
| Penamur extensions A and B.. | 5 | Basavareddipalle extensions A and B. | 8 | 2,501 | .. | |
| Pakala, A and B .. .. | 4 | Allapalle .. .. .. | 3 | | | |
| Santhapet extension .. .. | 4 | Nellipatla .. .. .. | 12 | | | |
| Pattikonda .. .. .. | 7 | Viralabanda .. .. .. | 4 | | | |
| Sanankuppam .. .. .. | 9 | Thotakanama .. .. .. | 8 | | | |
| Palmaner .. .. .. | 3 | | | | | |
| Peddur extension .. .. | 15 | | | | | |
| Musilimadugu extension .. | 3 | | | | | |
| Pallalakuppam extension A .. | 10 | | | | | |
| Kempasamudram .. .. | 3 | | | | | |
| Kallapadi .. .. .. | 10 | | | | | |
| Solavaram extension .. .. | 1 | | | | | |
| Thandappenthangal extension.. | 1 | | | | | |
| Nembedu extensions A, B and C | | | | | | |
| Total .. | 75 | | 35 | 2,501 | .. | |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Central* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. A. P. |
| South Arcot. | 505 | No. 331, dated 14th July 1896. | Rayandapuram .. .. .. | 7 | | Information not available. | |
| | | No. 79, dated 8th February 1897. | Eraiyurmalai .. .. .. | 8 | | | |
| | | No. 743, dated 22nd December 1896. | Padipallam .. .. .. | 5 | | | |
| | | No. 141, dated 6th March 1897. | Pakkamalai .. .. .. | 23 | | | |
| | | No. 196, dated 15th May 1896. | Swamimalai 1st bit .. .. | 3 | | | |
| | | No. 280, dated 29th April 1897. | Kunjaram .. .. .. | 2 | 8 | | .. |
| | | No. 311, dated 3rd July 1896. | Takarai .. .. .. .. | 22 | | | |
| | | No. 95, dated 15th February 1897. | Kaduvanur .. .. .. | 6 | | | |
| | | No. 103, dated 16th February 1897. | Rishivandiyam .. .. .. | 6 | | | |
| | | No. 23, dated 13th January 1897. | Kammapuram .. .. .. | 2 | | | |
| | | No. 346, dated 18th May 1897. | Ponniar .. .. .. .. | 75 | .. | .. | .. |
| | | No. 391, dated 26th May 1897. | Settiyandal .. .. .. | 1 | .. | .. | .. |
| | | No. 470, dated 17th June 1897. | Odayanachi .. .. .. | 1 | .. | .. | .. |
| | | No. 458, dated 14th June 1897. | Pusappadi .. .. .. | 3 | .. | .. | .. |
| | | | Total .. | 164 | 8 | .. | .. |
| Salem .. | 1,224 | .... | .... | .. | .. | .. | .. |
| Trichinopoly | 189 | .... | .... | .. | .. | .. | .. |

incurred on, Forest Settlements during 1896-97—*cont.*

| Areas undergoing settlement. | | | | | | Estimate of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |

*Circle*—cont.

| | SQ. MLS. | | SQ. MLS. | RS. | RS. A. P. | SQ. MLS. |
|---|---|---|---|---|---|---|
| .... | .. | Odaiyanatham .. .. .. | 3 | - | | |
| Pinjur .. .. .. .. | 12 | Sankarapuram tope (south) .. | | | | |
| Munnurmangalam .. .. | 4 | Do. do. (north) .. | | | | |
| .... | .. | Kattuvananjur tope .. .. | 1 | | | |
| Uchimalai .. .. .. | 3 | Puttai do. .. .. | | | | |
| .... | .. | Kattumaiyulur extension .. | | | | |
| Sorakalathur .. .. .. | 12 | | | | | |
| Damarakadu .. .. .. | 9 | | | | | |
| Annamangalam .. .. .. | 1 | | | | | |
| Porumpujai .. .. .. | 1 | | | 1,923 | .. | |
| Pichavaram extension .. | 1 | | | | | |
| Melakondalappadi tope .. | | | | | | |
| Aviriyur .. .. .. | 4 | | | | | |
| Ravuthanallur .. .. .. | 2 | | | | | |
| Marur .. .. .. .. | 1 | | | | | |
| Melpalankur .. .. .. | 4 | | | | | |
| Tachur .. .. .. .. | 2 | | | | | |
| Thottapadi .. .. .. | 2 | | | | | |
| Total .. | 58 | | 4 | 1,923 | .. | |
| Kombur .. .. .. .. | 4 | | | | | |
| Bothamalai extension .. | 3 | | | | | |
| Odiathur, west .. .. | 3 | | | | | |
| Mavar .. .. .. .. | 3 | | | | | |
| Pattiwedu extension .. .. | 3 | | | | | |
| Onnakarai .. .. .. | 6 | | | | | |
| Morappur .. .. .. | 9 | | | | | |
| Oblinaickenpatti .. .. | 3 | | | | | |
| Uttangarai .. .. .. | 5 | | | | | |
| Kottipalli .. .. .. | 5 | | | | | |
| Thogarapalli extension .. | 1 | | | | | |
| Papinayakanhalli .. .. | 5 | | | 2,501 | .. | |
| Periyapatti .. .. .. | 5 | | | | | |
| Kalladipatti .. .. .. | 4 | | | | | |
| Vathampatti .. .. .. | 2 | | | | | |
| Shelur .. .. .. .. | 28 | | | | | |
| Ubbarani .. .. .. | 19 | | | | | |
| Pungulam, west .. .. | 3 | | | | | |
| Do. south-west .. | | | | | | |
| Andiyappanur extension .. | 1 | | | | | |
| Ponnagarapatti .. .. | 6 | | | | | |
| Vellalagundam .. .. | 5 | | | | | |
| Poyyapatti .. .. .. | 5 | | | | | |
| Jambuthu extension .. .. | 1 | | | | | |
| Total .. | 129 | Total .. | .. | 2,501 | .. | |
| Valayur .. .. .. | 2 | Tatchankurichi .. .. | 4 | .. | | |
| .... | .. | Kundur Kalvarayankolam .. | 3 | .. | | |
| .... | .. | Peruvalappur .. .. .. | 1 | .. | | |
| .... | .. | Adavathoor tank-bed .. .. | 1 | .. | | |
| .... | .. | Punganur do. .. .. | | | | |
| .... | .. | Kumarikutti hill .. .. | 4 | .. | | |
| .... | .. | Mogavanur .. .. .. | | | | |

Statement showing the progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Central* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. A. P. |
| Trichinopoly —*cont.* | 189 | .... | .... | .. | .. | .. | .. |
| Tanjore .. | 19 | .... | .... | .. | .. | .. | .. |
| | | | | | | | *Southern* |
| South Canara. | 114 | No. 522, dated 10th October 1896. | 1. Darligudde .. .. .. | | | | |
| | | No. 230, dated 4th June 1896. | 2. Guruvankote. .. .. | 6 | | | |
| | | Do. | 3. Abbigudde .. .. .. | | 184 | .. | 13 2 1 |
| | | No. 522, dated 10th October 1896. | 4. Mudarigudde .. .. | | | | |
| | | Do. | 5. Honnukodlu .. .. | 1 | | | |
| | | No. 230, dated 4th June 1896. | 6. Kadike .. .. .. | 7 | | | |
| | | Do. | 7. Karnigadde .. .. .. | | | | |
| | | No. 363, dated 24th July 1896. | 8. Sarpanamane .. .. | | | | |
| | | | Total .. | 14 | 184 | .. | 13 2 1 |

incurred on, Forest Settlements during 1896–97—*cont.*

| Areas undergoing settlement. | | | | | | Estimate of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | SQ. MLS. | | SQ. MLS. | RS. | RS. | SQ. MLS. |
| .... | .. | Shemmalai extension, No. 1 .. | 2 | .. | | |
| .... | .. | Naganúr (Viramalai eastern) extension. | | | | |
| .... | .. | Aniyappur (Viramalai western) extension. | 1 | .. | | |
| .... | .. | Arasadi Arivithi .. .. | 3 | .. | | |
| .... | .. | Puliyur extension, No. 1 .. | 2 | .. | | |
| .... | .. | Kurumbalur .. .. .. | 4 | .. | | |
| .... | .. | Naranamangalam .. .. | 2 | .. | | |
| .... | .. | Irur .. .. .. .. | 4 | .. | | |
| .... | .. | Pillankolam .. .. .. | | | | |
| .... | .. | Iyanarpalayam .. .. | 3 | .. | | |
| .... | .. | Kariyanur .. .. .. | 1 | .. | | |
| .... | .. | Vannarampundi .. .. | 1 | .. | | |
| .... | .. | Mattavarai Mavalingai .. | 2 | .. | | |
| .... | .. | Sirukodal .. .. .. | 2 | .. | | |
| .... | .. | Kunnam .. .. .. | 4 | 1,819 | | |
| .... | .. | Mangalam .. .. .. | | | | |
| .... | .. | Sittali .. .. .. .. | 2 | .. | .. | 90 |
| .... | .. | Vempavur .. .. .. | 2 | .. | | |
| .... | .. | Mettupalayam .. .. .. | 2 | .. | | |
| .... | .. | Pulumbadi, No. 1 .. .. | 4 | .. | | |
| .... | .. | Do. No. 2 .. .. | 6 | .. | | |
| .... | .. | Puliyur extension, No. 2 .. | 4 | .. | | |
| .... | .. | Siruvachur .. .. .. | | | | |
| .... | .. | Peraiyur .. .. .. | 3 | .. | | |
| .... | .. | Periyavalayam Eastern extension, No. 1. | | | | |
| .... | .. | Periyavalayam Western extension, No. 2. | 2 | .. | | |
| .... | .. | Vedayathangudi .. .. | | | | |
| .... | .. | Sundaresvarapuram extension . | | | | |
| .... | .. | Ulliyakkudi extension .. | 2 | .. | | |
| .... | .. | Pilakkurichi .. .. .. | | | | |
| .... | .. | Tirukonam extension .. .. | 1 | .. | | |
| .... | .. | Vilangudi extension, No. 1 .. | | | | |
| ... | .. | Do. do. No. 2 .. | 2 | . | | |
| .... | .. | Vengaram .. .. .. | | | | |
| .... | .. | Alavoy extension .. .. | | | | |
| .... | .. | Karaipakam extension .. | 3 | .. | .. | |
| .... | .. | Siluvacheri .. .. .. | | | | |
| .... | .. | Kulumur extension .. .. | | | | |
| .... | .. | Kilakolathur .. .. .. | 2 | .. | .. | |
| Total .. | .. | | 79 | .. | .. | |
| .... | .. | North casuarina extension .. | 15 | 1,819 | .. | |
| *Circle*. | | | | | | |
| Charmadi-Kanapadi .. .. | 20 | Hurabe .. .. .. .. | 1 | .. | | |
| Herur .. .. .. | 4 | Kalangimale .. .. .. | 9 | .. | | |
| Hulimishepare .. .. .. | 3 | Karadka .. .. .. | | | | |
| Menashinaguddi .. .. | 1 | Chintaramale extension .. | 1 | .. | | |
| Hullumurdibare .. .. | 16 | Mulliar .. .. .. | 3 | .. | | |
| Hallakkihola .. .. .. | | Savantagudde .. .. .. | 1 | .. | | |
| Balkattehola .. .. .. | | Virakhamba .. .. .. | 3 | .. | | |
| Vadanaberuhola .. .. | | Menasinkan .. .. .. | 2 | .. | | |
| Jarkalane .. .. .. | 5 | Kodiamale .. .. .. | 2 | .. | | |
| Surtihola .. .. .. | | Panamleri .. .. .. | 1 | .. | | |
| Hulikuppana Ane .. .. | | .... | .. | .. | 5,028 | 564 |
| Sural Advi .. .. .. | | .... | .. | .. | | |
| Mudgalpare .. .. .. | 12 | .... | .. | .. | | |
| Nujina Ane .. .. .. | 1 | .... | .. | .. | | |
| Naganakalbare .. .. | | .... | .. | .. | | |
| Kamradihola .. .. .. | 10 | .... | .. | .. | | |
| Naravi .. .. .. | 101 | .... | .. | .. | | |
| Mettakallugudde .. .. | 9 | .... | .. | .. | | |
| Karkamadi .. .. .. | 3 | .... | .. | .. | | |
| Neral manekanu .. .. | | .... | .. | .. | | |
| Sampakere .. .. .. | 4 | .... | .. | .. | | |
| Chittur .. .. .. .. | | .... | .. | .. | | |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Southern* |
| South Canara —*cont.* | SQ. MLS. 114 | .... | .... | SQ. MLS. .. | RS. .. | RS. .. | RS. .. |
| North Malabar. | 157 | .... | .... | .. | .. | .. | .. |
| South Malabar. | 39 | No. 128, dated 25th February 1897. | Beypore tope .. .. .. | 54 acres. | .. | .. | .. |

incurred on, Forest Settlements during 1896-97—*cont.*

| Areas undergoing settlement. | | | | | | Estimate of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | SQ. MLS. | | SQ. MLS. | RS. | RS. | SQ. MLS. |
| Jarvattukadu .. .. .. | 1 | .... | .. | .. | 5,028 | |
| Metkalgudde .. .. .. | | .... | .. | .. | | |
| Murkodihola .. .. .. | 2 | .... | .. | .. | | |
| Halisomeshwar .. . | 3 | .... | .. | .. | | |
| Jattakattumale .. .. | 2 | .... | .. | .. | | |
| Doddinamane .. .. .. | 6 | .... | .. | .. | | |
| Bakudihola .. .. .. | 2 | .... | .. | .. | | |
| Madibare .. .. . | 30 | .... | .. | .. | | |
| Koratikalbare .. .. .. | 10 | .... | .. | .. | | |
| Megani valley .. .. | 28 | .... | .. | .. | | |
| Kursegudde .. .. .. | 5 | .... | .. | .. | | |
| Tombattu .. .. | 20 | .... | .. | .. | | |
| Surikodlu .. .. .. | 6 | .... | .. | .. | | |
| Balimane .. .. | 20 | .... | .. | .. | | |
| Mavinakodlu .. .. .. | 3 | .... | .. | .. | | |
| Someshwar .. .. .. | 37 | .... | .. | .. | | |
| New Someshwar .. .. | 4 | .... | .. | .. | | |
| Baregundi .. .. .. | 13 | .... | .. | .. | | |
| Baindur .. .. .. | 10 | .... | .. | .. | | |
| Mavinaguli .. .. .. | 2 | .... | .. | .. | | |
| Dottinaberu .. .. .. | 1 | .... | .. | .. | | |
| Total .. | 394 | | 23 | 5,028 | .. | |
| Kannoth .. .. .. | 40 | .... | .. | .. | .. | |
| Kannoth extension A .. .. | 2 | Dindimal .. .. .. | 2 | .. | .. | 18 |
| Periya .. .. .. .. | 21 | .... | .. | .. | .. | |
| Periya extension .. .. | 2 | .... | .. | 2,606 | .. | |
| Padri .. .. .. | 48 | .... | .. | .. | .. | |
| Wood-stock .. .. .. | | | | | | |
| Total .. | 113 | | 2 | 2,606 | .. | |
| *Nilambur Range.* | | | | | | |
| 1 Nilambur block .. .. | 169 | .... | .. | (*b*) 4,822 | .. | 29 |
| 2. Pokote .. .. | | | | | | |
| 3. Panangod .. .. .. | | | | | | |
| 4. Valluvasseri .. .. | | | | | | |
| 5. Kanakut .. .. .. | | | | | | |
| 6. Erambadam .. .. | | | | | | |
| 7. Ambalakandi .. .. | | | | | | |
| 8. Arimbracuttamala .. | | | | | | |
| 9. Mangalasseri paramba .. | | | | | | |
| 10. Puthalatha and chitharikal paramba. | | | | | | |
| *Amarampalem Range.* | | | | | | |
| 11. Muriat .. .. .. | | | | | | |
| 12. Kurien .. .. .. | | | | | | |
| 13. The new Amarampalam forest. | | | | | | |
| 14. Thampurattipotta *alias* Pillacheripallam. | | | | | | |
| 15. Dhoni *alias* Pilakatampalli-paramba. | | | | | | |
| 16. Puliampally tope .. .. | | | | | | |
| *Attapady Valley.* | | | | | | |
| 17. Block No. I .. .. | 91 | | .. | .. | .. | |
| 18. Do. ,, II .. .. | | | | | | |
| 19. Do. ,, III .. .. | | | | | | |
| 20. Do. ,, IV .. .. | | | | | | |
| Total .. | 260 | | .. | 4,822 | .. | |

(*b*) Charged under A-VIII *b*) being the amount of compensation paid to the owner of Karsery and Thalikolly lands in the new Amarampalam Forest.

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Southern* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. |
| Nilgiris .. | 357 | No. 667, dated 25th November 1896. | Bikkul .. .. .. .. | 1 | .. | .. | .. |
| | | | Kallakorai .. .. .. | | | | |
| | | | Nirkul .. .. .. .. | | | | |
| | | | Araiyatti .. .. .. | | | | |
| | | | Turaiyalla .. .. .. | | | | |
| | | | Vummandu .. .. .. | | | | |
| | | | Attuboil .. .. .. .. | | | | |
| | | | Vulibattu .. .. .. | | | | |
| | | | Belthal .. .. .. .. | | | | |
| | | | Gundada .. .. .. .. | | | | |
| | | | Bulhattihulla .. .. .. | | | | |
| | | | Hakku .. .. .. .. | | | | |
| | | | Devashola addition .. .. | | | | |
| | | | Umarikandi .. .. .. | | | | |
| | | | Ulimokkai .. .. .. | | | | |
| | | | Pattakarai .. .. .. | | | | |
| | | | Osatti addition No. 1 .. .. | | | | |
| | | | Do. ,, 2 .. .. | | | | |
| | | | Neyatti .. .. .. .. | | | | |
| | | | Bear Hill .. .. .. | | | | |
| | | | Edaiyatti .. .. .. | | | | |
| | | | Katteri .. .. .. .. | | | | |
| | | | Palukkurai .. .. .. | | | | |
| | | | Bellimara .. .. .. | | | | |
| | | | Welbeck No. 1 .. .. | | | | |
| | | | Do. ,, 2 .. .. | | | | |
| | | | Do. ,, 3 .. .. | | | | |
| | | | Kudikadu .. .. .. | | | | |
| | | | Upperkatteri .. .. .. | | | | |
| | | | Pillimalaikorai .. .. .. | | | | |
| | | | Gundorai .. .. .. | | | | |
| | | | Total .. | 1 | * 100 | .. | .. |
| North Coimbatore. | 859 | No. 390, dated 4th Aug. 1896. | Gutialatur .. .. .. | 200 | .. | .. | .. |
| | | No. 673, dated 26th Nov. 1896. | Ellapalayam .. .. .. | 3 | .. | 1,819 | 9 |
| | | Do. | Villikaradu .. .. .. | | | | |
| | | No. 670, dated 26th Nov. 1896. | Arachalur Hill .. .. .. | | | | |
| | | No. 596, dated 7th Nov. 1896. | Sullipalayam .. .. .. | | | | |
| | | No. 348, † dated 18th May 1897. | Kongampalayam .. .. | 1 | .. | .. | .. |
| | | | Total .. | 204 | .. | 1,819 | 9 |
| South Coimbatore. | 651 | No. 219, dated 28th May 1896. | Elayamuthur .. .. .. | 2 | .. | .. | .. |
| | | No. 374, dated 29th July 1896. | Dhalli .. .. .. .. | | | | |
| Madura .. | 551 | No. 308, dated 2nd July 1896. | Mannadimangalam .. .. | 1 | | | |
| | | No. 453, dated 10th Sept. 1896. | Tigershola .. .. .. | 3 | | | |
| | | No. 434, dated 1st Sept. 1896. | Manjampatti .. .. .. | 6 | | | |
| | | No. 431, dated 28th August 1896. | Usilampatti .. .. .. | | *Nil.* | *Nil.* | *Nil.* |
| | | No. 436, dated 1st Sept. 1896. | Sanamalai .. .. .. | 2 | | | |
| | | No. 104, dated 16th Feb. 1897. | Sakkimangalam .. .. | | | | |
| | | No. 465, dated 13th Sept. 1896. | Vellamalainedumalai .. .. | 1 | | | |

* This has been expended this year on account of the settlement of Sigur reserve during 1894–95.
† Finally settled during 1896–97, but reservation commences in 1897–98.

incurred on, Forest Settlements during 1896-97—*cont.*

| Areas undergoing settlement. | | | | | | Estimates of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | SQ. MLS. | | SQ. MLS. | RS. | RS. A. P. | SQ. MLS. |
| Nirburra .. .. .. | .. | Belerambu Halla .. .. | 1 | .. | .. | 75 |
| | | Keraipadu .. .. .. | | | | |
| | | Mullimalai .. .. .. | | | | |
| | | Arappilai .. .. .. | | | | |
| | | Sampangi .. .. .. | | | | |
| | | Bikkemara .. .. .. | | | | |
| | | Neggilhada .. .. .. | | | | |
| | | Thogalhatti .. .. .. | | | | |
| | | Mokkai .. .. .. .. | | | | |
| | | Uchchukadavu .. .. .. | | | | |
| | | Konemara .. .. .. | | | | |
| | | Selemara .. .. .. | | | | |
| Total .. | .. | | 1 | .. | .. | |
| Yedaralli .. .. .. | 212 | Guligy .. .. .. .. | 2 | .. | .. | |
| Ponnachi .. .. .. | 246 | Cowdally .. .. .. | 25 | .. | .. | |
| Hanur .. .. .. .. | 34 | Vellodu .. .. .. | 1 | .. | .. | 45 |
| Arachalur .. .. .. | 2 | Kanjikoil .. .. .. | | | | |
| Sennimalai .. .. .. | 3 | Attaivanai .. .. .. | .. | .. | .. | |
| Virumandampalayam .. | 2 | | .. | .. | .. | |
| Sinnaviragangili .. .. | 2 | | .. | .. | .. | |
| Pandiampalayam .. .. | 2 | | .. | .. | .. | |
| Voipadi .. .. .. | 1 | | .. | .. | .. | |
| Thambikalayan .. .. | 1 | | .. | .. | .. | |
| Total .. | 505 | Total .. | 28 | .. | .. | |
| .... | .. | Sunkarayapuram .. .. | 3 | .. | .. | |
| | | Nellimalai .. .. .. | | | | |
| Kappuvamadai .. .. | 11 | .... | | | | |
| Nallatevanpatti .. .. | | | | | | |
| Kodimangalam .. .. | 10 | .... | | | | |
| Andipatti, south .. .. | | | | | | |
| Anaigirishola .. .. | | | | | | |
| Mulaiyar .. .. .. | | | | | | |
| Kadavumalai .. .. .. | 7 | .... | *Nil.* | 1,822 | .. | |
| Koviladi .. .. .. | | | | | | |
| Siruganimalai .. .. .. | | | | | | |
| Umaiyar .. .. .. | | | | | | |
| Kodavanar .. .. .. | | | | | | |
| Sirumalai north-west slopes .. | 5 | .... | | | | |
| Thoppasamimalai .. .. | 18 | .... | | | | |
| Erakalamali .. .. .. | | | | | | |

Statement showing the Progress made in, and the expenditure

| Name of forest district. | Area already settled at commencement of year. | Areas finally settled during the year. | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number and date of Government Order according final sanction to the settlement. | Name of forest settled. | Area. | Expenditure incurred during the year on areas finally settled. | | Entire cost per square mile of areas finally settled during the year. |
| | | | | | In forest accounts. | In other accounts. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | *Southern* |
| | SQ. MLS. | | | SQ. MLS. | RS. | RS. | RS. |
| Madura—*cont.* | 551 | No. 458, Rev., dated 11th Sept. 1896. | Chinnapattikaradu .. .. | 1 | .. | .. | .. |
| | | No. 454, Rev., dated 10th Sept. 1896. | Papanmalai .. .. .. | 1 | .. | .. | .. |
| | | No. 435, Rev., dated 4th June 1897. | Methugamalai .. .. .. | 3 | .. | .. | .. |
| | | | Total .. | 18 | .. | .. | .. |
| Tinnevelly .. | 411 | No. 440, Rev., dated 3rd Sept. 1896. | Extension to Kottamadakkikadu reserved forest— | | | | |
| | | | Block I .. .. .. | | | | |
| | | | Do. III .. .. .. | | | | |
| | | | Do. IV .. .. .. | | | | |
| | | No. 461, Rev., dated 11th Sept. 1896. | Wolf-hill block .. .. | 3 | 3 | .. | .. |
| | | No. 361, Rev., dated 24th July 1896. | Thalaiyuthu— | | | | |
| | | | Block A .. .. .. | | | | |
| | | | Do. B .. .. .. | | | | |
| | | No. 387, Rev., dated 3rd Aug. 1896. | Block I adjoining Vallanad hills A. | | | | |
| | | | Do. II do. | | | | |
| | | | Do. III do. | | | | |
| | | | Total .. | 3 | 3 | .. | .. |

incurred on, Forest Settlements during 1896–97—*cont.*

| Areas undergoing settlement. | | | | | | Estimate of areas in which settlement operations have not yet commenced. |
|---|---|---|---|---|---|---|
| At commencement of the year. | | Taken in hand during the year. | | Expenditure incurred during the year on areas undergoing settlement. | | |
| Name of tract. | Area. | Name of tract. | Area. | In forest accounts. | In other accounts. | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Circle*—cont. | | | | | | |
| | SQ. MLS. | | SQ. MLS. | RS. | RS. A. P. | |
| Total .. | 51 | | .. | 1,822 | .. | |
| Manpothai .. .. .. | 2 | Extension to Kadayanalloor reserved forest III $C_2$ A. | | | | |
| Melapattam .. .. .. | 2 | | | | | |
| Gangaikondan .. .. .. | 4 | Extension to Kadayanaloor reserved forest III $C_2$ B. | | | | |
| Vaippar .. .. .. | 2 | | | | | |
| Extension to Kottamadakki-Kadu reserved forest. | .. | Mahendragiri .. .. .. | 1 | 1,819 | .. | |
| Do. Block V .. | 1 | Vannamuti .. .. .. | | | | |
| Chintamony block .. .. | | Nellyathu .. .. .. | | | | |
| Manoor block .. .. .. | 3 | Shermalai .. .. .. | | | | |
| Mullakadu block .. .. | | Alakonandal .. .. .. | | | | |
| | | Total .. | 1 | 1,819 | .. | |

## APPENDIX A.

*Forest Settlement.*

### Particulars of balance of lands under settlement.

| District. | Total number and area of blocks brought under settlement up to end of 1896-97. | | Total number and area of blocks constituted finally as reserved forests up to end of 1896-97. | | Balance at end of 1896-97. | |
|---|---|---|---|---|---|---|
| | Number. | Area. | Number. | Area. | Number. | Area. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Northern Circle.* | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. |
| Ganjám | 45; (b) — 1 | 559; (a) + 6; (b) — 1; (c) — 8 | 16 | 154; (c) — 8 | 28 | 410 |
| Vizagapatam | 39 | 304 | 22 | 136 | 17 | 168 |
| Gódávari | 78; (b) — 1 | 975; (a) + 7; (b) — 1; (d) — 28 | 69 | 810 | 8 | 143 |
| Kistna | 166; (b) — 7; (c) — 6 | 843; (a) — 11; (b) — 3; (c) — 3; (d) — 25 | 106; (c) — 6 | 668; (a) — 11; (c) — 3 | 53 | 147 |
| Kurnool | 51 | 2,191; (a) — 2; (d) — 1 | 29 | 1,806 | 22 | 382 |
| Bellary | 135; (c) — 13 | 509; (a) — 1; (c) — 6 | 120; (c) — 13 | 463; (a) — 1; (c) — 6 | 15 | 46 |
| Anantapur | 8 2; (c) — | 517; (c) — 3 | 68; (c) — 6 | 440; (c) — 3 | 14 | 77 |
| Total, Northern Circle | 562 | 5,818 | 405 | 4,445 | 157 | 1,373 |
| *Central Circle.* | | | | | | |
| Cuddapah | 173; (c) — 8 | 2,226; (a) — 8; (c) — 4 | 144; (c) — 8 | 1,580; (c) — 4 | 29 | 638 |
| Nellore | 179; (a) + 1; (b) — 1; (c) — 22 | 683; (b) — 1; (c) — 11; (d) — 1 | 150; (c) — 22 | 548; (c) — 11 | 29 | 133 |
| Chingleput | 221; (b) — 21 | 225; (b) — 13 | 182 | 203 | 18 | 9 |
| North Arcot | 149; (b) — 1 | 1,137; (b) — 3; (d) — 1 | 127 | 1,021 | 21 | 112 |
| South Arcot | 211; (b) — 25; (c) — 27 | 776; (b) — 33; (c) — 16; (d) — 12 | 161; (c) — 27 | 589; (c) — 16 | 25 | 142 |
| Salem | 174; (b) — 9 | 1,381; (a) + 5; (b) — 27; (c) — 1 | 141 | 1,224; (a) + 6; (c) — 1 | 24 | 129 |
| Trichinopoly | 121; (c) — 10 | 273; (c) — 3 | 74; (c) — 10 | 192; (c) — 3 | 47 | 81 |
| Tanjore | 22; (c) — 7 | 19; (c) — 1 | 21; (c) — 7 | 19; (c) — 1 | 1 | .. |
| Total, Central Circle | 1,120 | 6,590 | 926 | 5,346 | 194 | 1,244 |
| *Southern Circle.* | | | | | | |
| South Canara | 90; (b) — 2 | 572; (b) — 27 | 27 | 114 | 61 | 431 |
| North Malabar | 23 | 272 | 16 | 157 | 7 | 115 |
| South Malabar | 27 | 299 | 7 | 39 | 20 | 260 |
| The Nilgiris | 255; (b) — 2 | 359 | 240 | 358 | 13 | 1 |
| North Coimbatore | 85; (a) — 1; (b) — 5; (c) — 38 | 1,679; (a) — 81; (b) — 3; (c — 8 | 64; (a) — 1; (c) — 38 | 1,062; (a) — 1; (c) — 8 | 16 | 534 |
| South Coimbatore | 19; (b) — 1 | 657; (c) + 1; (b) — 1 | 16 | 653; (c) + 1 | 2 | 3 |
| Madura | 179; ( ) — 5; (c) — 25 | 637; (a) — 4; (b) — 3; (c) — 12; (d) — 2 | 159; (c) — 25 | 582; (a) — 8; (c) — 12 | 15 | 54 |
| Tinnevelly | 63; (c) — 10 | 429; ( — ) 4 | 48; (c) — 10 | 414; (c) — 4 | 15 | 15 |
| Total, Southern Circle | 652 | 4,760 | 503 | 3,347 | 149 | 1,413 |
| Grand Total | 2,334 | 17,168 | 1,834 | 13,138 | 500 | 4,030 |

(a) Rectification. (b) Initial notifications cancelled. (c) Disafforested.
(d) Excluded at settlement. (e) By rounding off fraction in previous year's figures.

APPENDIX A—*cont.*

*Forest Settlement*—cont.

Particulars of balance of lands under settlement—*cont.*

| District. | Classification of balance in columns 6 and 7. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Settled and reported on. | | | | | | | | Settled, but not reported on. | | Settlement proceeding. | |
| | Notified under section 16 during 1896-97, but reservation effected only after 30th June 1896. | | With Board or Government awaiting publication of notification under section 16. | | Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer. | | Total settled and reported on. | | | | | |
| | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | | SQ. MLS. | | SQ. MLS. | | SQ. MLS. | | SQ.MLS. | | SQ.MLS. | | SQ. MLS. |
| Ganjám .. .. | .. | .. | 8 | 50 | 12 | 268 | 20 | 318 | 5 | 54 | 3 | 38 |
| Vizagapatam .. .. | .. | .. | 1 | 73 | .. | .. | 1 | 73 | 3 | 41 | 13 | 54 |
| Gódávari .. .. | .. | .. | 1 | 24 | 1 | 14 | 2 | 38 | 4 | 97 | 2 | 8 |
| Kistna .. .. .. | 2 | 9 | 15 | 47 | 1 | 1 | 18 | 57 | 2 | 8 | 33 | 82 |
| Kurnool .. .. | 1 | 5 | 7 | 90 | 1 | 18 | 9 | 113 | 3 | 63 | 10 | 206 |
| Bellary .. .. | .. | .. | 1 | 16 | .. | .. | 1 | 16 | 1 | 2 | 13 | 28 |
| Anantapur .. .. | .. | .. | 1 | 1 | .. | .. | 1 | 1 | 2 | 13 | 11 | 63 |
| Total, Northern Circle. | 3 | 14 | 34 | 301 | 15 | 301 | 52 | 616 | 20 | 278 | 85 | 479 |
| *Central Circle.* | | | | | | | | | | | | |
| Cuddapah .. .. | 1 | 2 | 8 | 194 | 1 | 68 | 10 | 264 | 1 | 33 | 18 | 341 |
| Nellore .. .. .. | 1 | 5 | 4 | 9 | 1 | 40 | 6 | 54 | 2 | 3 | 21 | 76 |
| Chingleput .. .. | .. | .. | 7 | 6 | .. | .. | 7 | 6 | 1 | .. | 10 | 3 |
| North Arcot .. .. | 1 | 2 | 5 | 23 | 2 | 12 | 8 | 37 | 7 | 40 | 6 | 35 |
| South Arcot .. .. | 4 | 80 | 13 | 37 | .. | .. | 17 | 117 | 2 | 21 | 6 | 4 |
| Salem .. .. .. | .. | .. | 9 | 37 | 3 | 15 | 12 | 52 | .. | .. | 12 | 77 |
| Trichinopoly .. .. | .. | .. | 1 | 2 | .. | .. | 1 | 2 | .. | .. | 46 | 79 |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. |
| Total, Central Circle .. | 7 | 89 | 47 | 308 | 7 | 135 | 61 | 532 | 14 | 97 | 119 | 615 |
| *Southern Circle.* | | | | | | | | | | | | |
| South Canara .. .. | * 8 | 14 | 4 | 11 | .. | .. | 12 | 25 | 14 | 221 | 35 | 185 |
| North Malabar .. | .. | .. | .. | .. | .. | .. | .. | .. | 5 | 111 | 2 | 4 |
| South Malabar .. | 3 | 1 | .. | .. | .. | .. | 3 | 1 | 17 | 259 | .. | .. |
| The Nilgiris .. .. | .. | .. | 1 | .. | .. | .. | 1 | .. | .. | .. | 12 | 1 |
| North Coimbatore .. | 1 | 1 | 1 | 34 | 1 | 212 | 3 | 247 | 1 | 2 | 12 | 285 |
| South Coimbatore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 3 |
| Madura .. .. .. | 1 | 3 | 2 | 4 | 5 | 21 | 8 | 28 | .. | .. | 7 | 26 |
| Tinnevelly .. .. | .. | .. | 3 | 4 | .. | .. | 3 | 4 | 1 | 2 | 11 | 9 |
| Total, Southern Circle. | 13 | 19 | 11 | 53 | 6 | 233 | 30 | 305 | 38 | 595 | 81 | 513 |
| Grand Total, Presidency. | 23 | 122 | 92 | 662 | 28 | 669 | 143 | 1,453 | 72 | 970 | 285 | 1,607 |

* Of these, four blocks were notified during 1895-96, but reservation takes effect only after 30th June 1897.

## APPENDIX A—*cont.*

### *Forest Settlement*—cont.

### Particulars of balance of lands under settlement—*cont.*

| District. | Of lands notified under section 4 in the year. | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1883–84. | | 1884–85. | | 1885–86. | | 1886–87. | | 1887–88. | | 1888–89. | | 1889–90. | | 1890–91. | | 1891–92. | | 1892–93. | | 1893–94. | | 1894–95. | | 1895–96. | | 1896–97. | |
| | Number. | Area. | Number. | Area. | Number | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. | Number. | Area. |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| *Northern Circle.* | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. | | s. m. |
| Ganjám .. | .. | .. | 17 | 362 | 3 | 22 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 5 | 16 | .. | .. | 1 | 2 | 1 | 6 | .. | .. |
| Vizagapatam .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | * 41 | 2 | 125 | .. | .. | 2 | .. | .. | .. | 11 | 2 |
| Gódávarí .. | .. | .. | .. | .. | .. | . | .. | .. | .. | .. | .. | .. | 7 | 110 | 1 | 33 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | *20 | .. | .. | 1 | 13 | 5 | 12 | 4 | 15 | 6 | 23 | * 8 | *12 | 25 | 52 |
| Kurnool .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 22 | .. | .. | .. | .. | .. | .. | 6 | 107 | 2 | 5 | 1 | 5 | 7 | *154 | .. | .. | 5 | 89 |
| Bellary .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 16 | 4 | 12 | 10 | 18 |
| Anantapur .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 11 | 66 | 2 | 9 | .. | .. |
| Total .. | .. | .. | 17 | 362 | 3 | 22 | .. | .. | 1 | 22 | .. | .. | 11 | 130 | 1 | 33 | 10 | 163 | 14 | 158 | 6 | 22 | 28 | 261 | 15 | 39 | 51 | 161 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cuddapah .. | 1 | 137 | .. | .. | .. | .. | 1 | 18 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 68 | 2 | 18 | 13 | 234 | 4 | 132 | 7 | 31 |
| Nellore .. .. | 2 | † 45 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 28 | 6 | 24 | 18 | 36 |
| Chingleput .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | ‡.. | .. | .. | 2 | 2 | 1 | 2 | 2 | 1 | 2 | ‡.. | 6 | 3 | 4 | 1 |
| North Arcot .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 3 | 6 | 31 | 4 | 24 | 4 | 19 | 6 | 35 |
| South Arcot .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 75 | .. | .. | * 5 | * 31 | 2 | 6 | 8 | 16 | 3 | 10 | 6 | 4 |
| Salem .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 4 | .. | .. | .. | .. | .. | .. | 3 | 14 | 11 | 44 | 9 | 67 | .. | .. |
| Trichinopoly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | .. | .. | 46 | 79 |
| Tanjore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | ‡.. |
| Total .. | 3 | 182 | .. | .. | .. | .. | 1 | 18 | .. | .. | .. | .. | 2 | 4 | 1 | 75 | 2 | 2 | 8 | 104 | 15 | 70 | 42 | 348 | 32 | 255 | 88 | 186 |
| *Southern Circle.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| South Canara .. | .. | .. | .. | .. | 1 | 20 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 30 | 84 | 12 | *214 | 8 | 90 | 10 | 23 |
| North Malabar .. | .. | .. | 2 | 69 | 1 | 40 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 1 | 2 | 1 | ‡.. | 1 | 2 |
| South Malabar .. | .. | .. | .. | .. | .. | .. | .. | .. | 12 | 19 | 5 | 240 | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 1 | .. | .. | .. | .. | .. | .. |
| The Nilgiris .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | ‡.. | 12 | 1 |
| North Coimbatore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 458 | .. | .. | .. | .. | 1 | 34 | 8 | 14 | .. | .. | 5 | 28 |
| South Coimbatore .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 3 | 1 | ‡.. |
| Madura .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 14 | 54 | .. | .. | 1 | ‡.. | .. | .. | .. | .. | .. | .. |
| Tinnevelly .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 3 | 6 | 11 | 7 | 1 |
| Total .. | .. | .. | 2 | 69 | 2 | 60 | .. | .. | 12 | 19 | 5 | 240 | .. | .. | 2 | 458 | 14 | 54 | .. | .. | 36 | 121 | 23 | 233 | 17 | 104 | 36 | 55 |
| Grand Total .. | 3 | 182 | 19 | 431 | 5 | 82 | 1 | 18 | 13 | 41 | 5 | 240 | 13 | 134 | 4 | 566 | 26 | 219 | 22 | 262 | 57 | 213 | 93 | 842 | 64 | 398 | 175 | 402 |

* By rectification. † A portion of the Śrîharikóta minor forest was notified during the year. ‡ Below one mile.

## Appendix B.

Causes of delay in the submission of final notifications of forest reserves.

| Districts. | Causes of delay. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Notified under section 16 during 1896-97, but with effect only after 30th June 1897. | With Board or Government awaiting publication of notification under section 16. | Pending preparation of maps. | Awaiting disposal of appeals. | Awaiting expiry of time prescribed for appeal. | Only recently notified under section 4. | Awaiting payment of compensation or exchange of lands. | Awaiting settlement of claims under enquiry. | Awaiting District Forest-officers' answers to claims, demarcation, &c. | Settled, but final report pending with the Collector or Forest Settlement-officer. | Pending with the Collector or Forest Settlement-officer for revision of notifications. | Awaiting replies to references made to Collector or Board. | Awaiting inspection by Forest Settlement-officer. | Other causes, *i.e.*, awaiting return of records from the District Courts, information from Tahsildars, &c. | Total.* |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Ganjám | .. | 8 | 8 | 1 | .. | 2 | .. | 1 | .. | 1 | 6 | .. | .. | 1 | 28 |
| Vizagapatam | .. | 1 | .. | 4 | .. | 11 | .. | .. | .. | .. | .. | .. | 1 | .. | 17 |
| Gódávari | .. | 1 | 4 | .. | .. | .. | 1 | 1 | .. | .. | 1 | .. | .. | .. | 8 |
| Kistna | 2 | 15 | 1 | 3 | 2 | 8 | .. | .. | 1 | 2 | 1 | .. | .. | 18 | 53 |
| Kurnool | 1 | 7 | .. | 1 | 2 | 1 | .. | .. | 2 | 3 | 1 | 1 | 2 | 1 | 22 |
| Bellary | .. | 1 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 1 | 12 | .. | 15 |
| Anantapur | .. | 1 | .. | .. | .. | .. | .. | 2 | .. | 2 | .. | .. | 9 | .. | 14 |
| Cuddapah | 1 | 8 | .. | 1 | 2 | 7 | .. | 1 | 3 | 1 | 1 | .. | .. | 4 | 29 |
| Nellore | 1 | 4 | .. | .. | 1 | 11 | .. | 2 | 1 | 2 | 1 | .. | 6 | .. | 29 |
| Chingleput | .. | 7 | .. | .. | .. | .. | .. | 10 | .. | 1 | .. | .. | .. | .. | 18 |
| North Arcot | 1 | 5 | .. | .. | .. | 6 | 3 | .. | .. | 4 | 2 | .. | .. | .. | 21 |
| South Arcot | 4 | 13 | .. | .. | .. | 6 | .. | .. | .. | 1 | .. | .. | .. | 1 | 25 |
| Salem † | .. | 9 | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | .. | 12 | 24 |
| Trichinopoly | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 46 | .. | 47 |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | 1 |
| South Canara | 8 | 4 | 2 | .. | 1 | 2 | .. | 1 | 9 | 1 | 4 | .. | 27 | 2 | 61 |
| North Malabar | .. | .. | 1 | .. | .. | 1 | 2 | .. | .. | .. | .. | 3 | .. | .. | 7 |
| South Malabar | 3 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 12 | 4 | .. | .. | 20 |
| The Nilgiris | .. | 1 | .. | .. | .. | 9 | .. | 3 | .. | .. | .. | .. | .. | .. | 13 |
| North Coimbatore | 1 | 1 | .. | .. | .. | .. | 1 | 9 | .. | 1 | 1 | .. | 2 | .. | 16 |
| South Coimbatore | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | 2 |
| Madura | 1 | 2 | 4 | .. | .. | .. | .. | .. | .. | .. | 5 | .. | .. | 3 | 15 |
| Tinnevelly | .. | 3 | .. | .. | .. | 5 | .. | 4 | .. | 1 | 1 | .. | .. | 1 | 5 |
| Total | 23 | 92 | 21 | 10 | 8 | 70 | 7 | 36 | 16 | 21 | 39 | 9 | 105 | 43 | 500 |

* The difference between the total of the column and the total in Appendix C to Board's Proceedings, Forest No. 369, dated 26th August 1897, is due to—
(1) the clubbing or division of blocks, (2) the inclusion in this statement of blocks with Divisional-officers and (3) to the reported blocks pending with the Board or Government, &c.

† All the blocks in the district except one were pending the decision of the question of their retention or abandonment.

## APPENDIX C.

### RESERVED lands not under settlement in square miles.

| Districts. | Up to 1895-96. | Added during 1895-96. | Added during 1896-97. | Total. | Transferred for settlement. | | | | Balance, remaining "reserved lands," not under settlement. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Up to 1895-96. | During 1895-96. | During 1896-97. | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| *Northern Circle.* | | | | | | | | | |
| Ganjám .. .. | 576 | 6<br>(c) — 23 | (a) + 6<br>(c) — 9 | 556 | 553<br>(c) — 9 | 6 | (a) + 6 | 556 | .. |
| Vizagapatam .. | 432 | (c) — 17 | .. | 415 | 301<br>(c) + 1 | .. | 2 | 304 | 111 |
| Gódávari .. .. | 1,001 | (b) — 26 | (a) + 7<br>(b) — 28<br>(c) — 1 | 953 | 975<br>(c) — 1<br>(b) — 28 | .. | (a) + 7 | 953 | .. |
| Kistna .. .. | 1,112 | 100 | 21<br>(b) — 25<br>(c) — 33<br>(d) — 11 | 1,164 | 780<br>(b) — 25<br>(c) — 6<br>(d) — 11 | 11 | 52 | 801 | 363 |
| Kurnool .. .. | 2,233 | 11 | 80<br>(a) + 8<br>(b) — 1 | 2,331 | 2,091<br>(b) — 1<br>(a) — 2 | 11 | 89 | 2,188 | 143 |
| Bellary .. .. | 564 | 73 | (c) — 10<br>(d) — 1 | 626 | 479<br>(c) — 6<br>(d) — 1 | 12 | 18 | 502 | 124 |
| Anantapur.. .. | 513 | 4 | (c) — 3 | 514 | 508<br>(c) — 3 | 9 | .. | 514 | .. |
| Total .. | 6,431 | 128 | .. | 6,559 | 5,595 | 49 | 174 | 5,818 | 741 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. | 2,267 | 90 | 28<br>(a) — 8<br>(c) — 17 | 2,360 | 2,063<br>(a) — 8<br>(c) — 4 | 132 | 31 | 2,214 | 146 |
| Nellore .. .. | 652 | 9 | 36<br>(c) — 1<br>(b) — 1<br>(c) — 12 | 688 | 615<br>(b) — 1<br>(c) — 12 | 32 | 36 | 670 | 13 |
| Chingleput .. | 240 | 3<br>(c) — 5 | 1<br>(c) — 26 | 213 | 221<br>(c) — 13 | 3 | 1 | 212 | 1 |
| North Arcot .. | 1,137 | (c) — 6 | 16<br>(b) — 1<br>(c) — 12 | 1,134 | 1,083<br>(c) — 3<br>(b) — 1 | 19 | 35 | 1,133 | 1 |
| South Arcot .. | 866 | — 87 | 4<br>(b) — 12<br>(c) — 56 | 715 | 762<br>(b) — 12<br>(c) — 49 | 10 | 4 | 715 | .. |
| Salem .. .. | 1,346 | 118 | 3<br>(a) — 1<br>(c) — 32<br>(d) + 5 | 1,439 | 1,296<br>(a) — 1<br>(c) — 28<br>(d) + 6 | 85 | .. | 1,358 | 81 |
| Trichinopoly .. | 237 | (c) — 4 | 70<br>(c) — 6 | 297 | 194<br>(c) — 3 | .. | 79 | 270 | 27 |
| Tanjore .. .. | 33 | (c) — 14 | (c) — 1 | 18 | 19<br>(c) — 1 | .. | .. | 18 | .. |
| Total .. | 6,778 | 104 | — 23 | 6,859 | 6,123 | 281 | 186 | 6,590 | 269 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. | 1,140 | — 6 | 35<br>(a) + 1<br>(c) — 61 | 1,109 | 434<br>(c) — 27 | 115 | 23 | 545 | 564 |
| North Malabar .. | 277 | (c) — 5 | 2 | 274 | 270 | .. | 2 | 272 | 2 |
| South Malabar .. | 328 | .. | .. | 328 | 299 | .. | .. | 299 | 29 |
| The Nilgiris .. | 450 | (a) + 2 | 1<br>(c) — 2<br>(a) — 1 | 450 | 358 | .. | 1 | 359 | 91 |
| North Coimbatore. | 1,718 | (a) — 1 | 2<br>(a) — 80<br>(c) — 15<br>(d) — 1 | 1,623 | 1,651<br>(a) — 80<br>(c) — 11<br>(d) — 1 | .. | 28 | 1,587 | 36 |
| South Coimbatore . | 587 | 70 | .. | 657 | 654 | 3 | .. | 657 | .. |
| Madura .. .. | 651 | (a) + 1<br>(c) — 3 | (a) + 4<br>(b) — 2<br>(c) — 22<br>(d) — 8 | 621 | 637<br>(b) — 2<br>(c) — 15<br>(d) — 8 | .. | (a) + 4 | 616 | 5 |
| Tinnevelly .. | 430 | 11<br>(a) — 5<br>(c) — 8 | 3<br>(c) — 4 | 427 | 417<br>(c) — 4 | 11 | 1 | 425 | 2 |
| Total .. | 5,581 | 56 | — 148 | 5,489 | 4,572 | 129 | 59 | 4,760 | 729 |
| Grand Total .. | 18,790 | 288 | — 171 | 18,907 | 16,290 | 459 | 419 | 17,168 | 1,739 |

(a) By rectification. (b) At Settlement. (c) Unreserved or disforested.
(d) By rectification of areas already constituted reserved forests. (e) By rounding off fraction in previous year's return.

## Annual Form No. 46.

*Forest Department, Madras Presidency.*

## Record of Demarcation and Maintenance of Boundaries.

| District. | Length of boundaries artificially demarcated during the year. | Length of previously existing boundaries repaired during the year. | Length of previously existing boundaries not repaired during the year. | Total length of artificially marked boundaries at the close of the year. | Length of boundaries still to be demarcated at close of year. | Length of natural boundaries not requiring artificial marks. | Total length of boundaries at the close of the year. | Expenditure on demarcation during the year. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | On new work. | On repairs. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| *Northern Circle.* | MILES. | MILES. | MILES. | MILES. | MILES. | MILES. | MILES. | RS. | RS. |
| Ganjám .. .. .. .. | 30 | 187 | 531 | 748 | 153 | 55 | 956 | (a) 808 | (a) 550 |
| Vizagapatam .. .. .. | 13 | .. | 226 | 239 | 385 | 18 | 642 | (a) 330 | (a) 136 |
| Gódávari .. .. .. .. | 79 | 313 | 460 | 852 | 36 | 374 | 1,262 | 474 | 463 |
| Kistna .. .. .. .. | 125 | 49 | 605 | 779 | 99 | .. | 878 | (a) 2,184 | (b) 1,386 + 682 |
| Kurnool .. .. .. .. | 75 | 414 | .. | 489 | 409 | 168 | 1,066 | 2,891 | (c) .. |
| Bellary .. .. .. .. | 125 | 150 | 758 | 1,033 | 462 | .. | 1,495 | 651 | (d) 429 |
| Anantapur .. .. .. .. | 62 | 37 | 97 | 196 | .. | .. | 196 | 200 | (a) 376 |
| Total .. | 509 | 1,150 | 2,677 | 4,336 | 1,544 | 615 | 6,495 | 7,038 | 4,022 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. .. .. | (f) 165 | .. | 1,990 | 2,155 | .. | .. | 2,155 | (e) 1,385 | .. |
| Nellore .. .. .. .. | 46 | 6 | 991 | 1,043 | 292 | 86 | 1,421 | (a) 542 | 12 |
| Chingleput .. .. .. .. | 44 | 2 | 705 | 751 | .. | .. | 751 | 1,616 | (d) 597 |
| North Arcot .. .. .. .. | 27 | 584 | 1,832 | 2,443 | 60 | 12 | 2,515 | 339 | 1,760 |
| South Arcot .. .. .. .. | 187 | 24 | 1,421 | 1,632 | 413 | .. | 2,045 | 2,972 | (d) 1,007 |
| Salem .. .. .. .. | 90 | 468 | 1,875 | 2,433 | 298 | 88 | 2,819 | 351 | 565 |
| Trichinopoly .. .. .. | 70 | 21 (c) 222 | 732 | 1,045 | .. | .. | 1,045 | 376 | 156 |
| Tanjore .. .. .. .. | .. | .. | 79 | 79 | .. | .. | 79 | .. | .. |
| Total .. | 629 | 1,327 | 9,625 | 11,581 | 1,063 | 186 | 12,830 | 7,581 | 4,097 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. .. .. | 133 | .. | 1,172 | 1,305 | 30 | 2 | 1,337 | 1,202 | .. |
| Malabar, North .. .. .. | .. | 76 | 395 | 471 | 50 | 2 | 553 | .. | (d) 918 |
| Do. South .. .. .. | 1 | 18 | 107 | 126 | 52 | 92 | 270 | 49 | 154 |
| The Nilgiris .. .. .. | 37 | 201 | 605 | 843 | .. | 174 | 1,017 | 411 | (e) 1,088 |
| Coimbatore, North .. .. .. | 24 | 213 | 344 | 581 | 30 | 221 | 832 | 313 | (d) 2,864 + 401 |
| Do. South .. .. .. | .. | 36 | 442 | 478 | 13 | 77 | 568 | .. | 639 |
| Madura .. .. .. .. | .. | .. | 1,105 | 1,105 | 32 | 164 | 1,301 | .. | 3 |
| Tinnevelly .. .. .. .. | 43 | 5 | 241 | 289 | 197 | 17 | 503 | 127 | 180 |
| Total .. | 238 | 549 | 4,411 | 5,198 | 434 | 749 | 6,381 | 2,102 | 6,247 |
| Grand Total .. | 1,376 | 3,026 | 16,713 | 21,115 | 3,041 | 1,550 | 25,706 | 16,721 | 14,366 |

*N.B.*—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes.

(*a*) Includes cost of cairns repaired or erected.

(*b*) Cost of boards for boundary and coupe lines.

(*c*) Cleared by the forest establishment.

(*d*) Includes cost of establishment.

(*e*) Includes half the pay of temporary establishment, the other half being debited to preliminary demarcation

(*f*) Includes rectifying 53 miles of demarcation.

## ANNUAL FORM No. 47.

*Forest Department, Madras Presidency.*

## STATEMENT of Forest Areas surveyed and under survey during the year 1896–97.

| Districts. | Areas surveyed and under survey during the year 1896–97. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Special Surveys—Maps on 4-inch scale or over by Survey of India Department or Madras Survey. | | | | | | | | Ordinary, included in district surveys. | | | | | | | |
| | With interior details. | | | | | Boundary surveys. | | | With interior details. | | | | | Boundary Surveys. | | |
| | With details of growing stock. | | Without details of growing stock. | | Total cost. | Previous. | Of year. | Total cost. | With details of growing stock. | | Without details of growing stock. | | Total cost. | Previous. | Of year. | Total cost. |
| | Previous. | Of year. | Previous. | Of year. | | | | | Previous. | Of year. | Previous. | Of year. | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. | SQ. MLS. | SQ. MLS. | RS. |
| Ganjám | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Vizagapatam | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Gódávari | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kistna | .. | .. | .. | .. | .. | .. | 17 | .. | 17 | 1 | 276 | 35 | 216 | 39 | 146 | 898 |
| Kurnool | .. | .. | .. | 173 | 12,318 | .. | 465 | .. | . | .. | .. | .. | .. | .. | .. | .. |
| Bellary | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | 20 | 1,035 |
| Anantapur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | .. | .. | .. | 173 | 12,318 | .. | 482 | .. | 17 | 1 | 276 | 35 | 216 | 41 | 166 | 1,933 |
| *Central Circle.* | | | | | | | | | | | | | | | | |
| Cuddapah | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Nellore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Chingleput | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Arcot | .. | .. | 833 | 188 | (a)15,320 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South „ | .. | .. | 99 | .. | (b) .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Salem | .. | .. | 570 | 384 | (a)30,000 | .. | 263 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Trichinopoly | .. | .. | .. | 66 | (a)25,000 | 9 | 244 | .. | .. | .. | .. | .. | .. | 129 | 22 | .. |
| Tanjore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | .. | .. | 1,502 | 638 | 70,320 | 9 | 507 | .. | .. | .. | .. | .. | .. | 129 | 22 | .. |
| *Southern Circle.* | | | | | | | | | | | | | | | | |
| South Canara | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Malabar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South „ | 10 | 2 | 46 | .. | 314 | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. |
| The Nilgiris | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| North Coimbatore (b) | .. | .. | .. | .. | .. | .. | 280 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| South „ | .. | .. | 652 | .. | .. | .. | | .. | .. | .. | .. | 2 | .. | .. | .. | .. |
| Madura | .. | .. | 562 | .. | (b) | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tinnevelly | .. | .. | 410 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total | 10 | 2 | 1,670 | .. | 314 | .. | 280 | .. | .. | .. | .. | 2 | .. | 2 | .. | .. |
| Grand Total | 10 | 2 | 3,172 | 811 | 82,952 | 9 | 1,269 | .. | 17 | 1 | 276 | 37 | 216 | 172 | 188 | 1,933 |

(a) Cost during the year.

(b) Information not available.

## Statement of Forest Areas surveyed and under survey during the year 1896-97—*cont.*

| Districts. | Areas surveyed and under survey during the year 1896-97—*cont.* | | | | | | | | Areas remaining to be taken under survey. | Total area of reserved forest at the end of year, as per form No. 44. | Cost. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Chain and compass or other surveys by local officers. | | | | | | | | | | | | |
| | With interior details. | | | | | Boundary surveys. | | | | | Previous. | Of year. | Entire cost of all surveys to end of the year. |
| | 4-inch or over. | | Under 4-inch. | | Total cost. | Previous. | Of year. | Total cost. | | | | | |
| | Previous. | Of year. | Previous. | Of year. | | | | | | | | | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. | MLS. | MLS. | RS. | SQ. MLS. | SQ. MLS. | RS. | RS. | RS. |
| Ganjám .. .. .. | .. | .. | .. | .. | .. | 120 | 138 | 7,519 | 146 | 146 | 6,390 | 1,130 | 7,520 |
| Vizagapatam .. .. | 114 | .. | .. | .. | 2,403 | .. | 94 | 1,163 | 22 | 136 | 2,403 | 1,171 | 3,574 |
| Gódávari .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 810 | 810 | .. | .. | .. |
| Kistna .. .. .. | 2 | 2 | .. | .. | .. | 108 | 38 | .. | 321 | 654 | { 4,871 + 4,963 } | 1,286 | { 6,157 4,963 |
| Kurnool .. .. .. | 5 | .. | .. | .. | 254 | 40 | 63 | 1,605 | 1,628 | 1,806 | 884 | 13,253 | 14,137 |
| Bellary .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 456 | 456 | 332 | 703 | 1,035 |
| Anantapur .. .. | 342 | .. | .. | .. | 901 | .. | .. | .. | 95 | 437 | (*a*) 901 | .. | 901 |
| Total .. | 463 | 2 | .. | .. | 3,558 | 268 | 333 | 10,287 | 3,478 | 4,445 | 20,744 | 17,543 | 38,287 |
| *Central Circle.* | | | | | | | | | | | | | |
| Cuddapah .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,576 | 1,576 | .. | .. | .. |
| Nellore .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 537 | 537 | .. | .. | .. |
| Chingleput .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 203 | 203 | .. | .. | .. |
| North Arcot .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,021 | (*b*) .. | 15,320 | 15,320 |
| South „ .. .. | 6 | .. | .. | .. | 52 | .. | .. | .. | 468 | 573 | 52 | .. | 52 |
| Salem .. .. .. | 9 | .. | .. | .. | .. | .. | 2 | .. | 266 | 1,229 | 3,063 | 31,030 | 34,093 |
| Trichinopoly .. .. | 1 | .. | .. | .. | .. | .. | .. | .. | 122 | 189 | .. | 25,000 | 25,000 |
| Tanjore .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | *Nil.* | 18 | .. | .. | .. |
| Total .. | 16 | .. | .. | .. | 52 | .. | 2 | .. | 3,172 | 5,346 | 3,115 | 71,350 | 74,465 |
| *Southern Circle* | | | | | | | | | | | | | |
| South Canara .. .. | No information is available. | | | | | 200 | 117 | .. | *Nil.* | 114 | 1,517 | 1,236 | 2,753 |
| North Malabar .. .. | .. | .. | .. | .. | .. | .. | 34 | 493 | 157 | 157 | .. | 493 | 493 |
| South „ .. .. | .. | .. | .. | .. | .. | .. | .. | .. | *Nil.* | 39 | 513 | 328 | 841 |
| The Nilgiris .. .. | .. | .. | .. | .. | .. | .. | .. | .. | *Nil.* | 358 | .. | .. | .. |
| North Coimbatore (*b*) .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,053 | 1,053 | .. | .. | .. |
| South „ .. | .. | .. | .. | .. | .. | .. | .. | .. | *Nil.* | 654 | (*b*) .. | .. | .. |
| Madura .. .. | .. | .. | .. | .. | .. | .. | .. | .. | *Nil.* | 562 | (*b*) .. | 843 | 843 |
| Tinnevelly .. .. | .. | .. | .. | .. | .. | .. | .. | .. | *Nil.* | 410 | (*b*) .. | .. | .. |
| Total .. | .. | .. | .. | .. | .. | 200 | 151 | 493 | 1,210 | 3,347 | 2,030 | 2,900 | 4,930 |
| Grand Total .. | 479 | 2 | .. | .. | 3,610 | 468 | 486 | 10,780 | 7,860 | 13,138 | 25,889 | 91,793 | 1,17,682 |

(*a*) Cost during 1895-96.

(*b*) Information not available.

## Appendix D.

**Abstract of District Reports in regard to the maintenance of maps in accordance with the provisions of section 81 of the Forest Code.**

### *Northern Circle.*

*Ganjám.*—Forty-seven reserve maps were prepared and the district and range maps posted up to 30th June 1897.

*Visagapatam.*—The district reference and taluk maps have been posted, and Range officers supplied with range maps. Preparation of separate maps for each reserve has to await survey by the Survey of India Party.

*Gódávari.*—The district and range maps have been maintained and separate maps for each reserve kept.

*Kistna.*—Separate maps for reserves are under preparation. Maps for four blocks were prepared and sent to the Survey office and maps for nineteen blocks were printed and distributed.

*Kurnool.*—The district and range maps have been posted up, and these as well as reserve maps supplied to Range officers.

*Bellary.*—Orders on the subject of maintenance of the district, range and reserve maps in the District and Range offices have been attended to.

*Anantapur.*—The district map has been posted up to date, as also taluk maps for four taluks; 34 lithograph maps on a scale of 8 inches to 1 mile have been mounted and distributed to Range officers and 54 copies of maps sent to the Survey office for preparation of additional copies.

### *Central Circle.*

*Cuddapah.*—The district reference map has been maintained and range maps have been supplied to all Range officers posted up to date. Separate maps for all reserves except eight blocks have also been supplied to Range officers.

*Nellore.*—One hundred and twenty sketch maps of reserves have been supplied to Range offices.

*Chingleput.*—The district and range maps have been posted up to date and copies of 150 sketches of final maps supplied to Range officers.

*North Arcot.*—The district map has been posted up to date as also the range maps; copies of the latter have been supplied to all Range officers. Copies of reserve maps received from Survey of India have been furnished to Range officers. Of the 103 square miles of the finally reserved area excluded from the Survey of India maps, final maps for 26 square miles remain to be prepared departmentally.

*South Arcot.*—The district and taluk maps have been posted up to date and copies of the latter supplied to all Range officers. Separate maps for all reserves except those on the Tenmalais which are being surveyed by the Survey of India Party have also been furnished to all Range officers.

*Salem.*—The district, forest and range reference maps have been posted up to date and separate copies of reserve maps have been supplied in some cases.

*Trichinopoly.*—The district as well as the range reference maps have been posted. As regards separate maps for each reserve, tracings have been prepared for almost all the reserves in the Udaiyárpálaiyam range from the village maps prepared according to the resurvey. Steps are being taken to prepare maps of reserves in the Trichinopoly and Kulittalai ranges from resurvey village maps while those for the reserves on the Pachamalais in the Musiri and Perambalúr ranges are under preparation by the Survey of India Party.

*Tanjore.*—The district as well as the range reference maps have been maintained. There are also separate maps for each reserve with topographical features and admitted rights of way indicated therein. Working plan maps are maintained for the Vattangudi reserved forest and the north, the south and the Neidavasal casuarina plantations. The Vettangudi map is not quite complete.

### *Southern Circle.*

*Tinnevelly.*—The district reference map has been posted. The maps of the ghât forest reserves were reduced and attached to the taluk maps. Three copies of the reduced taluk maps were prepared and each of the Range officers was supplied with a copy relating to his range. Range officers were also supplied with Survey of India maps for the reserves surveyed by that party.

*Madura.*—The maps prescribed in the Code are in the hands of the District and Range officers except in the case of six reserves which were surveyed only during the year under report and for which the surveyors' maps are under scrutiny.

*North Coimbatore.*—The office reference map is maintained. The topographical sheets are used as range reference maps and are being posted. There are no reserve maps but the settlement map has been supplied to Range officers for the principal reserves to be used together with the topographical sheets as reserve maps.

*South Coimbatore.*—The district and range reference maps have been prepared but in the latter a few details have still to be entered. There are Survey of India maps for all the reserves but some details have still to be entered on them. There are also separate maps for the working circles.

*Nilgiris.*—The district and range reference maps have been posted. There are no reserve maps separately but settlement maps for each village are maintained, all the reserves being shown therein. Working circle maps are also maintained.

*North Malabar.*—The district reference map has been posted up to end of 30th June 1897 and one set of taluk maps with the ranges shown therein was supplied to Range officers. Separate maps for all reserves except for six blocks have also been supplied.

*South Malabar.*—The district reference map has been posted up to 30th June 1897. The range reference maps have not yet been prepared for want of the services of a draughtsman. There are separate maps for each reserve and working circle maps for areas for which working plans have been prepared.

*South Canara.*—The district reference map has been maintained and range maps except that of Coondapur are inaccurate and incomplete and nothing can be done before the publication of taluk maps by the Survey Department. Separate maps except for two blocks are maintained.

## Appendix E.

Statement showing area of reserved forests for which final maps have been prepared.

| Districts. | Area of reserved forests. | Area of reserved forests for which final maps have been prepared. |
|---|---|---|
| | SQ. MILES. | SQ. MILES. |
| Ganjám .. .. .. .. .. | 146 | 139 |
| Vizagapatam .. .. .. .. | 136 | 14 |
| Gódávari .. .. .. .. | 810 | 80 |
| Kistna .. .. .. .. .. | 654 | 340 |
| Kurnool .. .. .. .. .. | 1,806 | .. |
| Bellary .. .. .. .. .. | 456 | 282 |
| Anantapur .. .. .. .. | 437 | 392 |
| Cuddapah .. .. .. .. | 1,576 | 1,481 |
| Nellore .. .. .. .. | 537 | 517 |
| Chingleput .. .. .. .. | 203 | 203 |
| North Arcot .. .. .. .. | 1,021 | 494 |
| South Arcot .. .. .. .. | 573 | 573 |
| Salem .. .. .. .. .. | 1,229 | 529 |
| Trichinopoly .. .. .. .. | 189 | 15 |
| Tanjore .. .. .. .. .. | 18 | 18 |
| South Canara .. .. .. .. | 114 | 65 * |
| North Malabar .. .. .. .. | 157 | .. † |
| South Malabar .. .. .. .. | 39 | 39 |
| The Nilgiris .. .. .. .. | 358 | .. † |
| North Coimbatore .. .. .. | 1,053 | 12 ‡ |
| South Coimbatore .. .. .. | 654 | 652 |
| Madura .. .. .. .. .. | 562 | 560 |
| Tinnevelly .. .. .. .. | 410 | 407 |
| Total .. | 13,138 | 6,712 |

* Revised figure.

† No final maps in accordance with the instructions contained in Board's Proceedings, Forest No. 37 of 1894, have been prepared.

‡ Maps for other areas have been prepared, but cannot on account of their inaccuracy be considered final.

## ANNUAL FORM No. 48.

*Forest Department, Madras Presidency.*

### PROGRESS made in Working Plans during 1896–97.

| District. | Areas for which working plans have been completed. | | Areas for which working plans are being compiled. | | Areas for which working plans have still to be taken in hand. | Total Forest area as in Form No. 44. | Entire cost per square mile of working plans completed. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | During year. | At commencement of year. | Taken in hand during year. | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| *Northern Circle.* | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | RS. | |
| Ganjám .. .. | .. | .. | .. | .. | 556 | 556 | .. | |
| Vizagapatam .. | .. | .. | .. | .. | (*a*) 415 | 415 | .. | |
| Gódávari .. | 31 | .. | .. | .. | 922 | 953 | *Nil.* | |
| Kistna .. | 8 | (*b*) .. | (*c*) 680 | .. | 476 | 1,164 | *Nil.* | A sum of Rs. 721 was spent during the year for stock masters and stock men. |
| Kurnool .. | .. | .. | .. | .. | 2,331 | 2,331 | .. | |
| Bellary .. .. | 12 | .. | 38 | .. | 576 | 626 | .. | A sum of Rs. 68 was spent under this head during the year. |
| Anantapur .. | 1 | .. | .. | .. | 513 | 514 | .. | |
| Total .. | 52 | .. | 718 | .. | 5,789 | 6,559 | .. | |
| *Central Circle.* | | | | | | | | |
| Cuddapah .. | 3 | .. | .. | .. | 2,357 | 2,360 | .. | A sum of Rs. 63 was spent under this head during the year. |
| Nellore .. .. | .. | 40 | .. | 11 | 632 | 683 | *Nil.* | |
| Chingleput .. | .. | .. | .. | .. | 213 | 213 | ... | |
| North Arcot .. | .. | .. | .. | .. | 1,134 | 1,134 | .. | |
| South Arcot .. | (*d*) 58 | (*e*) 41 | .. | .. | 616 | 715 | (*f*) 52 | |
| Salem .. .. | 1 | .. | .. | .. | 1,438 | 1,439 | *Nil.* | |
| Trichinopoly .. | 16 | 18 | .. | .. | 263 | 297 | (*g*) *Nil.* | A sum of Rs. 115 was spent under this head during the year. |
| Tanjore .. .. | .. | 4 | .. | 4 | 10 | 18 | .. | |
| Total .. | 78 | 103 | .. | 15 | 6,663 | 6,859 | .. | |
| *Southern Circle.* | | | | | | | | |
| South Canara .. | .. | 1 | .. | .. | 1,108 | 1,109 | .. | |
| North Malabar .. | .. | .. | .. | .. | 274 | 274 | .. | |
| South Malabar .. | 34 | .. | .. | 24 | 270 | 328 | 99 | |
| The Nilgiris .. | (*h*) 6 | .. | .. | .. | 444 | 450 | 83 | |
| North Coimbatore. | .. | (*i*) .. | .. | .. | 1,623 | 1,623 | .. | |
| South Coimbatore. | 8 | 1 | .. | .. | 648 | 657 | .. | A sum of Rs. 51 was spent under this head during the year. |
| Madura .. .. | .. | .. | (*k*) 12 | .. | 609 | 621 | .. | |
| Tinnevelly .. | 5 | 29 | .. | .. | 393 | 427 | (*l*) 30 | |
| Total .. | 53 | 31 | 12 | 24 | 5,369 | 5,489 | .. | |
| Grand Total .. | 183 | 134 | 730 | 39 | 17,821 | 18,907 | .. | |

(*a*) No working plans can be prepared till maps are prepared.

(*b*) The working plan of the Orr reserve was completed during the year; but as its area is only 123 acres, it is not shown in this column.

(*c*) This consists of 33 grazing working circles; maps have to be prepared and stock-taking has not yet been commenced.

(*d*) Working scheme for 5 square miles and simple working plans based upon area for 53 square miles.

(*e*) Working scheme for one square mile and simple working plans based upon area for 40 square miles.

(*f*) So far as known.

(*g*) Prepared by the ordinary staff.

(*h*) Fuel plantations around Ootacamund and Coonoor.

(*i*) Rough working plans of a very preliminary nature were prepared for certain small areas by the ordinary staff.

(*k*) The difference between this column and column 5 in the last year's report has not been explained by the Collector.

(*l*) The decrease in the average cost as compared with the last year is due to the smallness of the expenditure, Rs. 626, incurred during the year in completing the working plan of 29 square miles.

ANNUAL

*Forest Department,*

Communications

| District. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new work. |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Northern* |
| | | RS. | | MLS. | RS. | RS. |
| Direction .. | .... | .. | .... | .. | .. | .. |
| Ganjám .. | (c) Houses for subordinate establishments .. .. | 17 | (a) Cart roads .. .. .. | 3 | 428 | |
| | | | (b) Block lines or bridle-paths .. | 12 | 550 | |
| | Total, Ganjám .. | 17 | Total .. | 15 | 978 | 995 |
| Vizagapatam. | (b) Rest-houses .. .. .. | 512 | (a) Cart roads .. .. .. | 8 | 882 | |
| | (c) Houses for subordinate establishments .. .. | 462 | | | | |
| | Total, Vizagapatam .. | 974 | Total .. | 8 | 882 | 1,856 |
| Gódávari .. | (b) Rest-houses .. .. .. | 1,853 | (a) Cart roads .. .. .. | 10 | 2,513 | |
| | (c) Houses for subordinate establishments .. .. | 397 | | | | |
| | (d) Others .. .. .. | 73 | | | | |
| | Total, Gódávari .. | 2,323 | Total .. | 10 | 2,513 | 4,836 |
| Kistna .. | (b) Rest-houses .. .. .. | 2,559 | (a) Cart roads .. .. .. | 38 | 5,109 | |
| | (d) Others .. .. .. | 70 | (b) Bridle-paths .. .. .. | .. | 78 | |
| | Total, Kistna .. | 2,629 | Total .. | 38 | 5,187 | 7,816 |
| Kurnool .. | (c) Houses for subordinate establishments .. .. | 2,141 | (a) Cart roads .. .. .. | .. | 320 | |
| | Total, Kurnool .. | 2,141 | Total .. | .. | 320 | 2,461 |
| Bellary .. | (c) Houses for subordinate establishments .. .. | 104 | (a) Cart roads .. .. .. | 4 | 308 | |
| | | | (b) Bridle-paths .. .. .. | 4 | 86 | |
| | Total, Bellary .. | 104 | Total .. | 8 | 394 | 498 |
| Anantapur .. | (b) Rest-houses .. .. .. | 1,227 | .... | .. | .. | |
| | Total, Anantapur .. | 1,227 | Total .. | .. | .. | 1,227 |
| Total, Northern Circle. | (b) Rest-houses .. .. .. | 6,151 | (a) Cart roads .. .. .. | 63 | 9,560 | |
| | (c) Houses for subordinate establishments .. .. | 3,121 | (b) Bridle-paths .. .. .. | 16 | 714 | |
| | (d) Others .. .. .. | 143 | (c) Others .. .. .. .. | .. | .. | |
| | Total .. | 9,415 | Total .. | 79 | 10,274 | 19,689 |

FORM No. 49.

*Madras Presidency.*

and Buildings.

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle.* | | | | | |
| (*a*) Head-quarter houses .. .. .. | Rs. 5 | | MLs. .. | Rs. .. | Rs. 5 |
| (*b*) Rest-houses .. .. .. .. | 463 | (*b*) Block lines or bridle-paths .. .. | 52 | 259 | .. |
| (*c*) Houses for subordinate establishments .. .. .. .. | 927 | | 52 | 259 | 1,649 |
| | | Add A-VII (*c*) .. | .. | .. | 71 |
| Total .. | (*c*) 1,390 | Total .. | .. | .. | 1,720 |
| (*b*) Rest-houses .. .. .. .. | 333 | | .. | .. | 573 |
| (*c*) Houses for subordinate establishments .. .. .. .. | 220 | | | | |
| (*d*) Others .. .. .. .. | 20 | Add A-VII (*c*) .. | .. | .. | 70 |
| Total .. | 573 | Total .. | .. | .. | 643 |
| (*b*) Rest-houses .. .. .. .. | 504 | | | | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 111 | (*a*) Cart roads .. .. .. .. | .. | 28 | .. |
| (*d*) Others .. .. .. .. | 89 | (*c*) Others .. .. .. .. .. | .. | 21 | .. |
| | 704 | | | | |
| Add pay of watchers .. | 569 | | .. | 49 | .. |
| Total .. | 1,273 | Total .. | .. | 49 | 1,322 |
| (*b*) Rest-houses .. .. .. .. | 136 | (*a*) Cart roads .. .. .. .. | 7 | 116 | .. |
| (*c*) Houses fot subordinate establishments .. .. .. .. | 32 | | 7 | 116 | 284 |
| | .. | Add A-VII (*c*) .. | .. | .. | 2,132 |
| Total .. | 168 | Total .. | .. | .. | 2,416 |
| (*a*) Head-quarter houses .. .. .. | 1,000 | | | | |
| (*b*) Rest-houses .. .. .. .. | 1,465 | (*a*) Cart roads .. .. .. .. | 25 | 1,851 | .. |
| (*c*) Houses for subordinate establishments .. .. .. .. | 199 | | 25 | 1,851 | 5,186 |
| (*d*) Others .. .. .. .. | 173 | Add A-VII (*c*) .. | .. | .. | 450 |
| Add cost of establishment .. .. | 498 | | | | |
| Total .. | 3,335 | Total .. | .. | .. | 5,636 |
| (*b*) Rest-houses .. .. .. .. | 2 | | | | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 48 | (*a*) Cart roads .. .. .. .. | 8 | 162 | .. |
| | | (*b*) Bridle-paths .. .. .. .. | 2 | 27 | .. |
| Total .. | 50 | Total .. | 10 | 189 | 239 |
| (*a*) Head-quarter houses .. .. .. | 85 | | | | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 175 | | | | |
| (*d*) Others .. .. .. .. | 16 | | .. | .. | 590 |
| Add pay of watchmen .. .. .. | 314 | Add A-VII (*c*) .. | .. | .. | 6 |
| Total .. | 590 | Total .. | .. | .. | 596 |
| (*a*) Head-quarter houses .. .. | 1,090 | (*a*) Cart roads .. .. .. .. | 40 | 2,157 | .. |
| (*b*) Rest-houses .. .. .. .. | 2,903 | (*b*) Bridle-paths .. .. .. .. | 54 | 286 | .. |
| | | (*c*) Others .. .. .. .. .. | .. | 21 | .. |
| (*c*) Houses for subordinate establishments .. .. .. .. | 1,712 | | 94 | 2,464 | 9,848 |
| (*d*) Others .. .. .. .. | 298 | Add A-VII (*c*) .. | .. | .. | 2,729 |
| | 6,003 | | | | |
| Add pay of watchers .. | 1,381 | | | | |
| Total, N. C. .. | 7,384 | Total .. | .. | .. | 12,577 |

(*c*) Includes pay of watchers.

Communications

| District. | New work undertaken during the year. | | | | | |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | Total expenditure on new work. |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Central* |
| | | RS. | | MLS. | RS. | RS. |
| Cuddapah .. | (*d*) Others .. .. .. .... | 278 .. | (*a*) Cart roads .. .. .. (*b*) Bridle-paths .. .. .. | 14 .. | 1,899 3 | |
| | Total, Cuddapah .. | 278 | Total .. | 14 | 1,902 | 2,180 |
| Nellore .. | (*c*) Houses for subordinate establishments .. .. (*d*) Others .. .. .. | 2,000 24 | .... | .. | .. | .. |
| | Total, Nellore .. | 2,024 | Total .. | .. | .. | 2,024 |
| Chingleput .. | (*b*) Rest-houses .. .. .. | 450 | .... | .. | .. | .. |
| | Total, Chingleput .. | 450 | Total .. | .. | .. | 450 |
| North Arcot .. | (*c*) Houses for subordinate establishments .. .. | 535 | (*a*) Cart roads .. .. .. | 2 | 1,531 | .. |
| | Total, North Arcot .. | 535 | Total .. | 2 | 1,531 | 2,066 |
| South Arcot .. | (*b*) Rest-houses .. .. .. (*c*) Houses for subordinate establishments .. .. | 22 13 | .... | .. | .. | .. |
| | Total, South Arcot .. | 35 | Total .. | .. | .. | 35 |
| Salem .. | (*b*) Rest-houses .. .. .. (*c*) Houses for subordinate establishments .. .. (*d*) Others .. .. .. | 406 606 497 | (*a*) Cart roads .. .. .. | 4 | 1,611 | .. |
| | Total, Salem .. | 1,509 | Total .. | 4 | 1,611 | 3,120 |
| Trichinopoly .. | .... | .. | .... | .. | .. | |
| | Total, Trichinopoly .. | .. | Total .. | .. | .. | .. |
| Tanjore .. | (*c*) Houses for subordinate establishments .. .. | 171 | .... | .. | .. | .. |
| | Total, Tanjore .. | 171 | Total .. | .. | .. | 171 |
| Total, Central Circle. | (*b*) Rest-houses .. .. .. (*c*) Houses for subordinate establishments .. .. (*d*) Others .. .. .. | 878 3,325 799 | (*a*) Cart roads .. .. .. (*b*) Bridle-paths .. .. .. (*c*) Others .. .. .. | 20 .. .. | 5,041 3 .. | .. .. .. |
| | Total, Central Circle .. | 5,002 | Total .. | 20 | 5,044 | 10,046 |

and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle.* | | | | | |
| | Rs. | | Mls. | Rs. | Rs. |
| (*b*) Rest-houses .. .. .. .. | 669 | (*a*) Cart roads .. .. .. .. | 1½ | 259 | |
| (*c*) Houses for subordinate establishment .. .. .. .. .. | 175 | | | | |
| (*d*) Others .. .. .. .. .. | 98 | | | | |
| | | | 1½ | 259 | 1,441 |
| | 942 | Add A-VII (*c*) .. .. .. .. | .. | .. | 5 |
| Add pay of Bungalow watchers .. | 240 | | | | |
| Total .. | 1,182 | Total .. | .. | .. | 1,446 |
| Total .. | .. | Total .. | .. | .. | .. |
| (*b*) Rest-houses .. .. .. .. | 545 | (*a*) Cart roads .. .. .. .. | .. | 29 | |
| (*c*) Houses for subordinate establishments .. .. .. .. .. | 67 | | .. | 29 | 670 |
| (*d*) Others .. .. .. .. .. | 29 | | | | |
| Total .. | 641 | Total .. | .. | .. | 670 |
| (*a*) Head-quarter houses .. .. | 400 | (*a*) Cart roads .. .. .. .. | 18 | 1,299 | |
| (*b*) Rest-houses .. .. .. .. | 588 | Total .. | 18 | 1,299 | 3,061 |
| (*c*) Houses for subordinate establishment .. .. .. .. .. | 160 | Add A-VII (*c*) .. .. .. .. | .. | .. | 35 |
| | 1,148 | | | | |
| Add pay of watchers .. | 614 | Total .. | .. | .. | 3,096 |
| Total .. | 1,762 | | | | |
| (*b*) Rest-houses .. .. .. .. | 543 | (*a*) Cart roads .. .. .. .. | 7 | 552 | 1,436 |
| Add pay of watchers .. | 341 | Add A-VII (*c*) .. .. .. .. | .. | .. | 81 |
| Total .. | 884 | Total .. | .. | .. | 1,517 |
| (*b*) Rest-houses .. .. .. .. | 300 | .... | .. | .. | 692 |
| (*c*) Houses for subordinate establishments .. .. .. .. .. | 392 | Add A-VII (*c*) .. .. .. .. | .. | .. | 16 |
| Total .. | 692 | Total .. | .. | .. | 708 |
| (*b*) Rest-houses .. .. .. .. | 19 | (*a*) Cart road .. .. .. .. | 4 | 215 | |
| (*d*) Others .. .. .. .. | 30 | | | | |
| Total .. | 49 | Total .. | 4 | 215 | 264 |
| (*b*) Rest-houses .. .. .. .. | 180 | .... | .. | .. | 180 |
| Total .. | 180 | Total .. | .. | .. | 180 |
| (*a*) Head-quarter houses .. .. | 400 | (*a*) Cart roads .. .. .. .. | 30½ | 2,354 | |
| (*b*) Rest-houses .. .. .. .. | 2,844 | (*b*) Bridle-paths .. .. .. .. | .. | .. | |
| (*c*) Houses for subordinate establishments .. .. .. .. .. | 794 | (*c*) Others .. .. .. .. .. | .. | .. | |
| (*d*) Others .. .. .. .. | 157 | | | | |
| | 4,195 | | 30½ | 2,354 | 7,744 |
| Add pay of watchers .. | 1,195 | Add A-VII (*c*) .. .. .. .. | .. | .. | 137 |
| Total .. | 5,390 | Total .. | .. | .. | 7,881 |

Communications

| District. | New work undertaken during the year. | | | | | Total expenditure on new works. |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Southern* |
| | | RS. | | MILS. | RS. | RS. |
| South Canara. | (*b*) Rest-houses .. .. .. | 85 | .... | .. | .. | |
| | (*d*) Others .. .. .. | 90 | | | | |
| | Total, South Canara .. | 175 | Total .. | .. | .. | 175 |
| North Malabar. | (*d*) Others .. .. .. | 376 | (*a*) Cart roads .. .. .. | 10 | 540 | |
| | Total, North Malabar .. | 376 | Total .. | 10 | 540 | 916 |
| South Malabar. | (*b*) Rest-houses .. .. .. | 972 | .... | .. | .. | |
| | (*c*) Houses for subordinate establishments. | 3,163 | | | | |
| | (*d*) Others .. .. .. | 17 | | | | |
| | Total, South Malabar .. | 4,152 | Total .. | .. | .. | 4,152 |
| The Nilgiris.. | (*b*) Rest-houses .. .. .. | 32 | (*a*) Cart roads .. .. .. | 1 | 500 | |
| | (*c*) Houses for subordinate establishments. | 891 | | | | |
| | (*d*) Others .. .. .. | 313 | | | | |
| | Total, Nilgiris .. | 1,236 | Total .. | 1 | 500 | 1,736 |
| North Coimbatore. | (*b*) Rest-houses .. .. .. | 258 | (*a*) Cart roads .. .. .. | 20 | 7,000 | |
| | (*c*) Houses for subordinate establishments. | 2,209 | (*b*) Bridle-paths .. .. .. | 9½ | 1,350 | |
| | (*d*) Others .. .. .. | 43 | | | | |
| | Total, North Coimbatore .. | 2,510 | Total .. | 29½ | 8,350 | 10,860 |
| South Coimbatore. | (*b*) Rest-houses .. .. .. | 1,944 | (*a*) Cart roads .. .. .. | 3 | 403 | |
| | (*c*) Houses for subordinate establishments. | 123 | (*b*) Bridle-paths .. .. .. | 2 | 127 | |
| | (*d*) Others .. .. .. | 511 | (*c*) Others .. .. .. | 1 | 749 | |
| | Total, South Coimbatore .. | 2,578 | Total .. | 6 | 1,279 | 3,857 |
| Madura .. | (*b*) Rest-houses .. .. .. | 617 | (*a*) Cart roads .. .. .. | .. | 625 | |
| | Total, Madura .. | 617 | Total .. | .. | 625 | 1,242 |

and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle.* | | | | | |
| | Rs. | | MLs. | Rs. | Rs. |
| (*c*) Houses for subordinate establishments .. .. .. .. | 126 | (*a*) Cart roads .. .. .. .. | 9 | 33 | .. |
| (*d*) Others .. .. .. .. | 18 | | 9 | 33 | 177 |
| | | Add A-VII (*e*) .. .. .. .. | .. | .. | 12 |
| Total .. | 144 | Total .. | .. | .. | 189 |
| (*a*) Head-quarter houses .. .. | 185 | (*a*) Cart roads .. .. .. .. | 88 | 1,045 | |
| (*b*) Rest-houses .. .. .. .. | 156 | | | | |
| (*d*) Others .. .. .. .. | 58 | | 88 | 1,045 | 1,444 |
| | | Add A-VII (*e*) .. .. .. .. | .. | .. | 407 |
| Total .. | 399 | Total .. | .. | .. | 1,851 |
| (*a*) Head-quarter houses .. .. | 34 | (*a*) Cart road .. .. .. .. | 1 | 501 | |
| (*b*) Rest-houses .. .. .. .. | 118 | | | | |
| (*c*) Houses for subordinate establishments .. .. .. .. .. | 184 | (*b*) Bridle-path .. .. .. .. | 6 | 45 | |
| (*d*) Others .. .. .. .. | 405 | | 7 | 546 | 1,287 |
| | | Add A-VII (*e*) .. .. .. .. | .. | .. | 85 |
| Total .. | 741 | Total .. | .. | .. | 1,372 |
| (*d*) Others .. .. .. .. | 974 | (*a*) Cart roads .. .. .. .. | 57 | 848 | |
| | | | 57 | 848 | 1,822 |
| | | Add A-VII (*e*) .. .. .. .. | .. | .. | 88 |
| Total .. | 974 | Tota .. | .. | .. | 1,910 |
| (*b*) Rest-houses .. .. .. .. | 417 | (*a*) Cart roads .. .. .. .. | 60 | 3,935 | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 210 | | 60 | 3,935 | 4,097 |
| (*d*) Others .. .. .. .. | 255 | | | | |
| | 882 | Add A-VIII(*c*) .. .. .. .. | .. | .. | 29 |
| Add pay of watchers .. | 280 | | | | |
| Total .. | 1,162 | Total .. | .. | .. | 5,126 |
| (*a*) Head-quarter houses .. .. | 27 | (*a*) Cart roads .. .. .. .. | 21 | 2,542 | |
| (*b*) Rest-houses .. .. .. .. | 391 | (*b*) Bridle-paths .. .. .. .. | 1½ | 49 | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 780 | (*c*) Others .. .. .. .. .. | 10 | 665 | |
| | | | 32½ | 3,256 | 4,513 |
| (*d*) Others .. .. .. .. | 59 | Add A-VII (*c*) .. .. .. .. | .. | .. | 662 |
| Total .. | 1,257 | Total .. | .. | .. | 5,175 |
| (*a*) Head-quarter houses .. .. | 275 | (*a*) Cart roads .. .. .. .. | .. | 136 | |
| (*b*) Rest-houses .. .. .. .. | 447 | | .. | 136 | 858 |
| | | Add A-VII (*c*) .. .. .. .. | .. | .. | 74 |
| Total .. | 722 | Total .. | .. | .. | 932 |

| Districts. | New work undertaken during the year. | | | | | Total expenditure on new works. |
|---|---|---|---|---|---|---|
| | Buildings. | | Roads and paths. | | | |
| | Description of building. | Expenditure incurred. | Road or path and object of the same. | Length of road or path. | Expenditure incurred. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | *Southern* |
| | | Rs. | | MLS. | Rs. | Rs. |
| Tinnevelly .. | (*b*) Rest-houses .. .. .. | 2,452 | (*a*) Cart roads .. .. .. | 4 | 634 | |
| | (*c*) Houses for subordinate establishments. | 275 | (*b*) Bridle-paths .. .. .. | 1 | 447 | |
| | (*d*) Others .. .. .. | 346 | (*c*) Others .. .. .. | .. | 2,559 | |
| | Total, Tinnevelly .. | 3,073 | Total .. | 5 | 3,640 | 6,713 |
| Total, Southern Circle. | (*b*) Rest-houses .. .. .. | 6,360 | (*a*) Cart roads .. .. .. | 38 | 9,702 | |
| | (*c*) Houses for subordinate establishments. | 6,661 | (*b*) Bridle-paths .. .. .. | 12½ | 1,924 | |
| | (*d*) Others .. .. .. | 1,696 | (*c*) Others .. .. .. | 1 | 3,308 | |
| | Total, Southern Circle .. | 14,717 | Total .. | 51½ | 14,934 | 29,651 |
| Grand Total, Presidency. | (*a*) Head-quarter houses .. | .. | (*a*) Cart roads .. .. .. | 121 | 24,303 | |
| | (*b*) Rest-houses .. .. .. | 13,389 | (*b*) Bridle-paths .. .. .. | 28½ | 2,641 | |
| | (*c*) Houses for subordinate establishments. | 13,107 | (*c*) Others .. .. .. | 1 | 3,308 | |
| | (*d*) Others .. .. .. | 2,638 | | | | |
| | Total, Presidency .. | 29,134 | Total .. | 150½ | 30,252 | 59,386 |

and Buildings—*cont.*

| Repairs executed during the year. | | | | | |
|---|---|---|---|---|---|
| Buildings. | | Roads and paths. | | | Total expended on repairs. |
| Nature of repairs. | Expenditure incurred. | Nature of repairs. | Length repaired. | Expenditure incurred. | |
| 8 | 9 | 10 | 11 | 12 | 13 |
| *Circle*—cont. | | | | | |
| | Rs. | | Mls. | Rs. | Rs. |
| (*b*) Rest-houses .. .. .. .. | 922 | (*a*) Cart roads .. .. .. .. | 65 | 1,754 | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 71 | (*b*) Bridle-paths .. .. .. .. | 24 | 645 | |
| (*d*) Others .. .. .. .. | 42 | | | | |
| Total .. | 1,035 | Total .. | 89 | 2,399 | 3,434 |
| (*a*) Head-quarter houses .. | 521 | (*a*) Cart roads .. .. .. .. | 301 | 10,794 | |
| (*b*) Rest-houses .. .. .. .. | 2,451 | (*b*) Bridle-paths .. .. .. .. | 31½ | 739 | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 1,371 | (*c*) Others .. .. .. .. .. | 10 | 665 | |
| (*d*) Others .. .. .. .. | 1,311 | | 342½ | 12,198 | 18,632 |
| Add pay of watchers .. | 280 | Add A-VII (*c*) .. .. .. .. | .. | .. | 1,357 |
| Total .. | 6,434 | Total .. | .. | .. | 19,989 |
| (*a*) Head-quarter houses .. .. | 2,011 | (*a*) Cart roads .. .. .. .. | 371½ | 15,305 | |
| (*b*) Rest-houses .. .. .. .. | 8,198 | (*b*) Bridle-paths .. .. .. .. | 85½ | 1,025 | |
| (*c*) Houses for subordinate establishments .. .. .. .. | 3,877 | | | | |
| (*d*) Others .. .. .. .. | 2,266 | (*c*) Others .. .. .. .. .. | 10 | 686 | |
| | 16,352 | | 467 | 17,016 | 36,224 |
| Add pay of watchers .. | 2,856 | Add A-VII (*c*) .. .. .. .. | .. | .. | 4,223 |
| Grand Total, Presidency .. | 19,208 | Total .. | .. | .. | 40,447 |

ANNUAL FORM No. 65.

*Tramway Statement.*

STATEMENT showing the results of transport of wood by tramway compared with transport by country carts.

I.—*Nellore District.*

(i) Sríharikóta Range.

*Capital Account.*

| —— | 1895-96. | 1896-97. | —— | 1895-96. | 1896-97. |
|---|---|---|---|---|---|
| *Dr.* | Rs. | Rs. | *Cr.* | Rs. | Rs. |
| To balance from the previous year .. .. .. .. | 19,463 | 18,380 | By depreciation at 6 per cent... | 1,173 | 1,103 |
| Add cost of iron caps and brass journals purchased .. .. | 90 | .. | „ balance of stock .. .. | 18,380 | 17,277 |
| Total .. | 19,553 | 18,380 | Total .. | 19,553 | 18,380 |

*Revenue Account.*

| —— | 1895-96. | 1896-97. | —— | 1895-96. | 1896-97. |
|---|---|---|---|---|---|
| *Dr.* | Rs. | Rs. | *Cr.* | Rs. | Rs. |
| To working expenses .. .. | 614 | 499 | By balance written off .. | 2,875 | 2,719 |
| „ road-making and repairs .. | 306 | 382 | | | |
| „ interest at 4 per cent. .. | 782 | 735 | | | |
| „ depreciation at 6 per cent. .. | 1,173 | 1,103 | | | |
| Total .. | 2,875 | 2,719 | Total .. | 2,875 | 2,719 |

| —— | 1895-96. | | | 1896-97. | | |
|---|---|---|---|---|---|---|
| | Number of tons carried. | Miles carried. | Total ton miles. | Number of tons of fuel carried. | Number of miles carried. | Total ton miles. |
| Work done .. .. .. .. | 1,516 | 5¾ | 8,717 | 3,530 | 2½ | 8,825 |
| | 407 | 1 | 407 | | | |
| Total .. | 1,923 | .. | 9,124 | | | |

REMARKS.—Interest and depreciation were allowed for the whole outlay although 2½ miles only were worked.

| —— | 1895-96. | | | 1896-97. | | |
|---|---|---|---|---|---|---|
| | Number of ton miles. | Amount. | Rate per ton mile. | Number of ton miles. | Amount. | Rate per mile. |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Actual charge for carrying .. .. | 9,124 | 2,875 | 0 5 0 | 8,825 | 2,719 | 0 4 11 |
| Estimated cost of carting .. .. | 9,124 | 3,089 | * 0 5 5 | 8,825 | 2,758 | * 0 5 0 |

* The decrease in the rate is due to the decrease in the distance carried.

ABSTRACT.

| Year. | Profit. | Loss. |
|---|---|---|
| | Rs. | Rs. |
| 1889-90 to 1891-92 .. .. .. .. .. .. .. | .. | 2,596 |
| 1892-93 to 1895-96 .. .. .. .. .. .. .. | 1,848 | .. |
| 1896-97 .. .. .. .. .. .. .. .. .. | 39 | .. |
| Total .. | 1,887 | 2,596 |
| Net loss up to 30th June 1897 .. | 709 | |

## (ii) Casuarina Plantation Range.

*Capital Account.*

| — | 1895-96. | 1896-97. | — | 1895-96. | 1896-97. |
|---|---|---|---|---|---|
| *Dr.* | Rs. | Rs. | *Cr.* | Rs. | Rs. |
| To balance from the previous year .. | 14,073 | 13,313 | By depreciation at 6 per cent. .. | * 850 | 798 |
| ,, cost of caps and journals purchased .. .. .. .. | * 90 | .. | ,, balance of stock .. .. .. | 13,313 | 12,515 |
| Total .. | 14,163 | 13,313 | Total .. | 14,163 | 13,313 |

* This item which has been wrongly included in the Revenue Account in the last year's return has now been carried to the Capital Account.

*Revenue Account.*

| — | 1895-96. | 1896-97. | — | 1895-96. | 1896-97. |
|---|---|---|---|---|---|
| *Dr.* | Rs. | Rs. | *Cr.* | Rs. | Rs. |
| To working expenses .. .. | 302 | 468 | By balance written off .. .. | 1,718 | 1,798 |
| ,, interest at 4 per cent. .. .. | 566 | 532 | | | |
| ,, depreciation at 6 per cent. .. | 850 | 798 | | | |
| Total .. | 1,718 | 1,798 | Total .. | 1,718 | 1,798 |

| — | 1895-96. | | | 1896-97. | | |
|---|---|---|---|---|---|---|
| | Number of tons of wood carried. | Number of miles carried. | Total ton miles. | Number of tons of wood carried. | Number of miles carried. | Total ton miles. |
| Work done .. .. .. .. | 1,262 | 4 | 5,048 | 1,099 | 4 | 4,396 |

| — | 1895-96. | | | 1896-97. | | |
|---|---|---|---|---|---|---|
| | Number of ton miles. | Amount. | Rate per ton per mile. | Number of ton miles. | Amount. | Rate per ton per mile. |
| | | Rs. | Rs. A. P. | | Rs. | Rs. A. P. |
| Actual charge for carrying .. .. | 5,048 | 1,718 | 0 5 5 | † 4,396 | 1,798 | 0 6 6 |
| Estimated cost of carting .. .. | 5,048 | 4,680 | 0 14 10 | 4,396 | 4,396 | 1 0 0 |

† The decrease in the quantity trolled is due to change of officers. The variation in the cost rate of carting has not been explained.

ABSTRACT.

| Year. | Profit. | Loss. |
|---|---|---|
| | Rs. | Rs. |
| 1885-86 to 1886-87 .. .. .. .. .. .. .. | 3,681 | .. |
| 1887-88 .. .. .. .. .. .. .. | .. | 570 |
| 1888-89 .. .. .. .. .. .. .. | 2,999 | .. |
| 1889-90 .. .. .. .. .. .. .. | .. | 165 |
| 1890-91 to 1894-95 .. .. .. .. .. .. | 14,778 | .. |
| 1895-96 .. .. .. .. .. .. .. | 2,962 | .. |
| 1896-97 .. .. .. .. .. .. .. | 2,598 | .. |
| Total .. | 27,018 | 735 |
| Net .. | 26,283 | |

## II. *Cuddapah District.*

*Capital Account.*

| —— | | 1895-96. | 1896-97. | —— | | 1895-96. | 1896-97. |
|---|---|---|---|---|---|---|---|
| | *Dr.* | RS. | RS. | | *Cr.* | RS. | RS. |
| To balance from previous year .. | | 11,601 | 10,905 | By depreciation at 6 per cent. .. | | 696 | 654 |
| | | | | ,, balance of stock .. .. | | 10,905 | 10,251 |
| | Total | 11,601 | 10,905 | | Total .. | 11,601 | 10,905 |

*Revenue Account.*

| —— | | 1895-96. | 1896-97. | —— | | 1895-96. | 1896-97. |
|---|---|---|---|---|---|---|---|
| | *Dr.* | RS. | RS. | | *Cr.* | RS. | RS. |
| To working expenses .. .. .. | | 153 | 62 | By revenue from contractors .. | | 126 | * .. |
| ,, road repairs .. .. .. | | 51 | 7 | ,, balance written off .. .. | | 1,278 | 1,248 |
| ,, depreciation .. .. .. | | 696 | 654 | | | | |
| ,, interest at 4 per cent. .. .. | | 464 | 436 | | | | |
| ,, Tramway repairs .. .. .. | | 40 | 89 | | | | |
| | Total .. | 1,404 | 1,248 | | Total .. | 1,404 | 1,248 |

* Rupees 151 received from the contractor subsequent to the close of the year for wood trucked during the year have not been shown here.

| —— | 1895-96. | | | 1896-97. | | |
|---|---|---|---|---|---|---|
| | Number of tons of fuel carried. | Number of miles carried. | Total ton miles. | Number of tons of fuel carried. | Number of miles carried. | Total ton miles. |
| Work done .. .. .. .. | (*a*) 756½ | 1½ | 1,134¾ | 547 | 2 | 1,094 |

| —— | 1895-96. | | | 1896-97. | | |
|---|---|---|---|---|---|---|
| | Total number of ton miles. | Total cost of carrying. | Rate per ton per mile. | Total number of ton miles. | Total cost of carrying. | Rate per ton per mile. |
| | | RS. | RS. A. P. | | RS. | RS. A. P. |
| Actual charges for carrying .. .. | 1,134¾ | 1,404 | 1 3 10 | 1,094 | 1,248 | 1 2 3 |
| Estimated cost by carts .. .. | 1,134¾ | 1,135 | (*b*) 1 0 0 | 1,094 | 1,094 | 1 0 0 |

(*a*) Of these 546½ tons were trucked by the department.
(*b*) The estimated cost by carts is based on the number of trips which one cart can make in one day carrying half a ton.

ABSTRACT OF PROFIT AND LOSS.

| Year. | Profit.. | Loss. |
|---|---|---|
| | RS. | RS. |
| 1892-93 to 1895-96 .. .. .. .. .. .. .. .. .. | .. | 3,743 |
| 1896-97 .. .. .. .. .. .. .. .. .. .. | .. | 154 |
| Total Loss .. .. | | 3,897 |

## III. *South Coimbatore District.*

*Capital Account.*

| — | 1895-96. | 1896-97. | — | 1895-96. | 1896-97. |
|---|---|---|---|---|---|
| *Dr.* | RS. | RS. | *Cr.* | RS. | RS. |
| To balance from previous year .. | 50,092 | 47,244 | By depreciation at 6 per cent. .. | 3,015 | 2,878 |
| „ extension of tram line .. .. | 16 | 669 | „ balance of stock .. .. .. | *47,244 | 45,085 |
| „ cost of brakes to tram trucks .. | 151 | .. | | | |
| „ construction of temporary sheds for storing tram materials. | .. | 50 | | | |
| Total .. | * 50,259 | 47,963 | Total .. | 50,259 | 47,963 |

* This differs from that entered in the last year's report as the cost of repairs to tram trucks and of tarring spare rails and sleepers has now been rightly taken to the Revenue Account instead of to the Capital Account.

*Revenue Account.*

| — | 1895-96. | 1896-97. | — | 1895-96. | 1896-97. |
|---|---|---|---|---|---|
| *Dr.* | RS. | RS. | *Cr.* | RS. | RS. |
| To working expenses .. .. | 4,768 | 3,834 | By balance written off .. .. | †10,156 | 8,873 |
| „ depreciation at 6 per cent. .. | 3,015 | 2,878 | | | |
| „ interest at 4 per cent. .. .. | 2,010 | 1,918 | | | |
| „ repairs to roadway .. .. | 104 | 100 | | | |
| „ repairs to tram trucks .. .. | 195 | 143 | | | |
| „ tarring spare rails and sleepers.. | 64 | .. | | | |
| Total .. | 10,156 | 8,873 | Total .. | 10,156 | 8,873 |

† The difference between this figure and that entered in the last year's return is due to the explanation given under Capital Account.

| — | 1895-96. | | | 1896-97. | | |
|---|---|---|---|---|---|---|
| | Number of tons of timber carried. | Number of miles carried. | Total ton miles. | Number of tons of timber carried. | Number of miles carried. | Total ton miles. |
| Work done .. .. | 1,797 tons (5,748 $\frac{2}{25}$ candies or 71,862 cubic feet) | 4 | 7,188 | 1,419 tons (4,539 $\frac{3}{25}$ candies or 56,739 cubic feet.) | $4\frac{1}{8}$ | 6,563 |

| — | Total number of ton miles. | Total amount spent. | Rate per ton per mile. | Total number of ton miles. | Total amount spent. | Rate per ton per mile. |
|---|---|---|---|---|---|---|
| | | RS. | RS. A. P. | | RS. | RS. A. P. |
| Actual charges for carrying .. | 7,188 | 10,156 | 1 6 7 | 6,563 | 8,873 | 1 5 6 |
| Estimated cost by carts .. .. | 7,188 | 7,488 | 1 0 8 | 6,563 | 6,836 | 1 0 8 |
| Annual cost of maintaining cart road before construction of tramways now saved. | .. | 1,200 | .. | .. | 1,200 | .. |
| Total .. | 7,188 | 8,688 | .. | 6,563 | 8,036 | .. |

ABSTRACT OF PROFIT AND LOSS.

| | Profit. | Loss. |
|---|---|---|
| | RS. | RS. |
| 1889-90 to 1895-96 .. .. .. .. .. .. .. .. .. | .. | 22,136 |
| 1896-97 .. .. .. .. .. .. .. .. .. | .. | 837 |
| Total Loss .. | | 22,973 |

*N.B.*—The rate paid for carting from Sungam to Venthamudi, a distance of 6 miles prior to the construction of the tramway, was Rs. 2 per candy of 12½ cubic feet This comes to slightly more than 5 pies per cubic foot per mile, or Rs. 1-0-8 per ton mile. A ton being taken as equivalent to 40 cubic feet; hence the estimated cost by carts has been calculated at the rate of Rs. 1-0-8 per ton mile.

## ANNUAL FORM No. 50.

*Forest Department, Madras Presidency.*

PROSECUTIONS for breaches of Forest Rules during 1896-97.

| | District. | Cases pending from 1895-96. | NEW CASES OF THE YEAR. | | | | | Total cases. | DISPOSED OF DURING THE YEAR. | | | | | | | | | | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Injury to forest by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions. | | Acquittals. | | Compounded. | | Withdrawn. | | Total. | | |
| | | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| *Northern Circle.* | Ganjám .. .. | 20 | .. | 165 | 44 | 17 | 226 | 246 | 85 | 232 | 15 | 100 | 91 | 201 | 17 | 46 | 208 | 579 | 38 |
| | Vizagapatam .. .. | 30 | .. | 374 | 50 | 11 | 435 | 465 | 160 | 507 | 19 | 68 | 137 | 330 | 59 | 259 | 375 | 1,164 | 90 |
| | Gódávari .. .. | * 38 | 6 | 338 | 31 | 144 | 519 | 557 | 94 | 281 | 30 | 129 | 251 | 551 | 30 | 152 | 405 | 1,113 | 152 |
| | Kistna .. .. | 309 | 9 | 273 | 388 | 45 | 715 | 1,024 | 213 | 730 | 62 | 392 | 404 | 1,272 | 261 | 581 | 940 | 2,975 | 84 |
| | Kurnool .. .. | 90 | 1 | 649 | 200 | 50 | 900 | 990 | 285 | 927 | 87 | 222 | 279 | 914 | 113 | 217 | 764 | 2,280 | 226 |
| | Bellary .. .. | 71 | 14 | 332 | 87 | 124 | 557 | 628 | 35 | 171 | 4 | 6 | 461 | 1,390 | 46 | 82 | 546 | 1,649 | 82 |
| | Anantapur .. .. | 9 | 3 | 137 | 113 | 7 | 260 | 269 | 76 | 328 | 16 | 106 | 119 | 445 | 20 | 58 | 231 | 937 | 38 |
| | Total .. | 567 | 33 | 2,268 | 913 | 398 | 3,612 | 4,179 | 948 | 3,176 | 233 | 1,023 | 1,742 | 5,103 | 546 | 1,395 | 3,469 | 10,697 | 710 |
| *Central Circle.* | Cuddapah .. .. | 103 | 6 | 247 | 401 | 18 | 672 | 775 | 394 | 1,114 | 62 | 260 | 114 | 352 | 102 | 424 | 672 | 2,150 | 103 |
| | Nellore .. .. | 20 | .. | 82 | 69 | 10 | 161 | 181 | 79 | 190 | 12 | 31 | 28 | 74 | 13 | 47 | 132 | 342 | 49 |
| | Chingleput .. .. | 20 | .. | 235 | 180 | 28 | 443 | 463 | 48 | 160 | 13 | 42 | 277 | 701 | 102 | 177 | 440 | 1,080 | 28 |
| | North Arcot .. | 63 | 1 | 474 | 527 | 19 | 1,021 | 1,084 | 87 | 310 | 19 | 71 | 785 | 1,845 | 39 | 172 | 930 | 2,398 | 154 |
| | South Arcot .. .. | 256 | 12 | 932 | 477 | 87 | 1,508 | 1,764 | 282 | 1,020 | 54 | 300 | 1,115 | 2,966 | 138 | 380 | 1,589 | 4,666 | 175 |
| | Salem .. .. | 48 | 3 | 484 | 534 | 24 | 1,045 | 1,093 | 212 | 755 | 42 | 309 | 647 | 1,879 | 100 | 366 | 1,001 | 3,309 | 92 |
| | Trichinopoly .. | 80 | .. | 153 | 519 | 12 | 684 | 764 | 166 | 389 | 38 | 140 | 269 | 755 | 210 | 106 | 683 | 1,390 | 81 |
| | Tanjore .. .. | 5 | .. | 22 | 38 | 2 | 62 | 67 | 16 | 29 | 2 | 6 | 21 | 57 | 23 | 40 | 62 | 132 | 5 |
| | Total .. | 595 | 22 | 2,629 | 2,745 | 200 | 5,596 | 6,191 | 1,284 | 3,967 | 242 | 1,159 | 3,256 | 8,629 | 727 | 1,712 | 5,509 | 15,467 | 682 |
| *Southern Circle.* | South Canara † .. | 149 | 8 | 431 | 38 | 418 | 895 | 1,044 | 493 | 703 | 97 | 251 | 194 | 275 | 126 | 164 | 910 | 1,393 | 134 |
| | North Malabar .. | 9 | .. | .. | 4 | 17 | 21 | 30 | 4 | 10 | 4 | 6 | 10 | 14 | 7 | 23 | 25 | 53 | 5 |
| | South Malabar .. | 7 | .. | 10 | .. | 3 | 13 | 20 | 9 | 18 | 1 | 5 | 1 | 1 | 4 | 18 | 15 | 42 | 5 |
| | Nilgiris .. .. | 15 | .. | 38 | 59 | 9 | 106 | 121 | 61 | 149 | 4 | 21 | 32 | 82 | 6 | 9 | 103 | 261 | 18 |
| | North Coimbatore .. | 24 | .. | 100 | 192 | 27 | 319 | 343 | 131 | 352 | 25 | 104 | 96 | 330 | 48 | 126 | 300 | 912 | 43 |
| | South Coimbatore .. | 22 | .. | 65 | 99 | 14 | 178 | 200 | 26 | 58 | 7 | 33 | 132 | 333 | 11 | 44 | 176 | 468 | 24 |
| | Madura .. .. | 141 | 33 | 173 | 253 | 24 | 483 | 624 | 383 | 1,151 | 48 | 292 | 21 | 111 | 67 | 72 | 519 | 1,626 | 105 |
| | Tinnevelly .. .. | 51 | 2 | 238 | 169 | 11 | 415 | 466 | 14 | 42 | 11 | 37 | 309 | 974 | 82 | 255 | 416 | 1,308 | 50 |
| | Total .. | 418 | 43 | 1,050 | 814 | 523 | 2,430 | 2,848 | 1,121 | 2,483 | 197 | 749 | 795 | 2,120 | 351 | 711 | 2,464 | 6,063 | 384 |
| | Grand Total, Presidency .. | 1,580 | 98 | 5,947 | 4,472 | 1,121 | 11,638 | 13,218 | 3,353 | 9,626 | 672 | 2,931 | 5,793 | 15,852 | 1,624 | 3,818 | 11,442 | 32,227 | 1,776 |

* Now reported by the Collector.

† Excludes 2,018 petty offences committed by 3,027 people let off with a warning.

## Annual Form No. 51.

*Forest Department, Madras Presidency.*

## Area of Forest Tracts protected from Fire during 1896–97.

| District. | Ranges or taluks. | Area actually protected up to 30th June 1896. | During dry season of 1896–97. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | *Northern Circle.* | acs. | acs. | acs. | acs. | rs. | |
| Ganjám .. | .... | 129,876 | 137,224 | 3,908 | 133,316 | 1,322 | |
| Vizagapatam. | .... | 43,509 | 32,006 | 3,700 | 28,306 | 178 (a)+262 | (a) Added or subtracted as per Accountant-General's audited figures. |
| Gódávari—Special .. | Bhadráchalam .. .. | 13,739 | 13,912 | 41 | 13,871 | 479 | |
| | Marrigudem .. .. | 27,394 | 29,300 | 544 | 28,756 | 533 | |
| | Rekapalle .. .. | 8,600 | 9,500 | 90 | 9,410 | 216 | |
| | Total, Special, Gódávari. | 49,733 | 52,712 | 675 | 52,037 | 1,228 | |
| General .. | Rajahmundry .. .. | 49,040 | 49,065 | 1,150 | 47,915 | 313 | |
| | Peddápur .. .. .. | 2,150 | 2,150 | .. | 2,150 | 24 | |
| | Yernagudem .. .. | 16,160 | 17,700 | 160 | 17,540 | 265 | |
| | Ellore .. .. .. | 17,125 | 17,340 | .. | 17,340 | 196 | |
| | Total, General, Gódávari. | 84,475 | 86,255 | 1,310 | 84,945 | 798 | |
| | Total, Special and General Gódávari. | 134,208 | 138,967 | 1,985 | 136,982 | 2,026 | |
| Kistna—Special .. | .... | 64,156 | 83,822 | 160 | 83,662 | 1,889 | |
| General .. | Palnad range .. .. | 80,346 | 80,346 | .. | 80,346 | 3 | |
| | Total, Special and General, Kistna. | 144,502 | 164,168 | 160 | 164,008 | 1,892 | |
| Kurnool .. | .... | 55,937 | 73,305 | 2,481 | 70,824 | 3,161 | |
| Bellary—Special .. | Sandúr .. .. .. | 33,000 | 40,000 | 909 | 39,091 | 1,705 | |
| | Kudligi .. .. .. | 18,350 | 19,000 | .. | 19,000 | 224 | |
| | Bellary .. .. .. | 796 | 1,066 | .. | 1,066 | .. | |
| | Total, Special, Bellary .. | 52,146 | 60,066 | 909 | 59,157 | 1,929 | |
| General .. | Sandúr .. .. .. | 10,800 | 12,000 | .. | 12,000 | .. | |
| | Adóni .. .. .. | 1,574 | 1,574 | 245 | 1,329 | (b) .. | (b) No expenditure was incurred as almost all grass was removed by ryots. The fire that occurred was put out by ryots. |
| | Total, General, Bellary.. | 12,374 | 13,574 | 245 | 13,329 | .. | |
| | Total, Special and General, Bellary. | 64,520 | 73,640 | 1,154 | 72,486 | 1,929 | |
| Anantapur .. | .... | 113,445 | 121,915 | 500 | 121,415 | 672 | |
| | Total, Special, Northern Circle. | 166,035 | 196,600 | 1,744 | 194,856 | 5,046 | |
| | Total, General, Northern Circle. | 519,962 | 544,625 | 12,144 | 532,481 | 6,396 | |
| | Grand Total, Northern Circle. | 685,997 | 741,225 | 13,888 | 727,337 | 11,442 | |
| | *Central Circle.* | | | | | | |
| Cuddapah .. | .... | 489,148 | 422,380 | 12,510 | 409,870 | 5,720 | |
| Nellore .. | .... | 113,610 | 115,720 | .. | 115,720 | 642 | |
| Chingleput—Special .. | .... | 23,441 | 23,873 | 400 | 23,473 | 452 | |
| North Arcot—Special .. | Chittoor .. .. .. | ... | 47,814 | 25 | 47,789 | 220 | |
| | Chandragiri .. .. | 97,697 | 99,252 | 1,749 | 97,503 | 1,066 | |
| | Palmanér .. .. | 21,586 | 66,868 | 1,205 | 65,663 | 567 | |
| | Gudiyáttam .. .. | 22,928 | 81,214 | 706 | 80,508 | 548 | |
| | Vellore .. .. .. | 82,208 | 107,852 | 660 | 107,192 | 955 | |
| | Polur .. .. .. | 117,286 | 126,714 | 220 | 126,494 | 1,041 | |
| | Arcot-Wallajah .. .. | 6,941 | 10,776 | 1,740 | 9,036 | 242 | |
| | Total, Special, North Arcot. | 348,646 | 540,490 | 6,305 | 534,185 | 4,639 (a)+ 48 | |

## Area of Forest Tracts protected from Fire during 1896–97—*cont.*

| District. | Ranges or taluks. | Area actually protected up to 30th June 1896. | During dry season of 1896–97. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | *Central Circle*—cont. | ACS. | ACS. | ACS. | ACS. | RS. | |
| North Arcot—*cont.* | | | | | | | |
| General .. | Chittoor .. .. .. | 84,225 | 34,164 | 224 | 33,940 | .. | |
| | Chendragiri .. .. | 10,800 | 10,850 | .. | 10,850 | | |
| | Palmanér .. .. .. | 87,774 | 52,978 | .. | 52,978 | | |
| | Gudiyátam .. .. | 71,563 | 14,687 | 2 | 14,685 | | |
| | Vellore .. .. .. | 33,463 | 7,653 | 130 | 7,523 | | |
| | Polur .. .. .. | 43,431 | 43,426 | .. | 43,426 | | |
| | Wallajah .. .. .. | 3,078 | 3,078 | .. | 3,078 | | |
| | Wandiwash .. .. | 10,771 | 10,801 | .. | 10,801 | | |
| | Arcot .. .. .. | 10,207 | 7,329 | .. | 7,329 | | |
| | Total, General, North Arcot. | 355,312 | 184,966 | 356 | 184,610 | .. | |
| | Total, Special and General, North Arcot. | 703,958 | 725,456 | 6,661 | 718,795 | 4,687 | |
| South Arcot— | | | | | | | |
| Special .. | Tiruvannámalai .. .. | 50,790 | 51,600 | 90 | 51,510 | 498 | |
| | Kallakurchi .. .. | 14,338 | 14,338 | .. | 14,338 | 91 | |
| | Total, Special, South Arcot. | (*a*) 65,128 | 65,938 | 90 | 65,848 | 589 | (*a*) This area was shown under general last year, but it is now reported to have been under special protection. |
| General .. | Tiruvannámalai .. .. | 29,361 | 30,468 | 178 | 30,290 | 29 | |
| | Total, Special and General, South Arcot. | 94,489 | 96,406 | 268 | 96,138 | 618 | |
| Salem .. | Salem, West .. .. | 10,277 | 10,537 | 37 | 10,500 | 563 | |
| | Uttankarai .. .. | 12,248 | 15,748 | 2,120 | 13,628 | 227 | |
| | Tiruppattúr .. .. | 10,807 | 11,983 | 221 | 11,762 | 508 | |
| | Krishnagiri .. .. | 5,738 | 6,800 | .. | 6,800 | 314 | |
| | Total, Salem .. | 39,070 | 45,068 | 2,378 | 42,690 | 1,612 +(*b*)118 | (*b*) Amount spent in beating out fires in other areas. |
| Trichinopoly—General .. | Musiri .. .. .. | 49,581 | 50,081 | 100 | 49,981 | 74 | |
| | Perambalur .. .. | 32,600 | 32,600 | .. | 32,600 | 48 | |
| | Total, General, Trichinopoly. | 82,181 | 82,681 | 100 | 82,581 | 122 | |
| Tanjore .. | .... | .. | .. | .. | .. | .. | |
| | Total, Special, Central Circle. | (*c*) 437,215 | 630,301 | 6,795 | 623,506 | 5,728 | (*c*) *Vide* remark (*a*). |
| | Total, General, Central Circle. | 1,108,682 | 881,283 | 15,522 | 865,761 | 8,243 | |
| | Grand Total, Central Circle. | 1,545,897 | 1,511,584 | 22,317 | 1,489,267 | 13,971 | |
| | *Southern Circle.* | | | | | | |
| South Canara. | Coondapoor range .. | 15,314 | 16,504 | 256 | 16,248 | 140 | |
| | Udipi range .. .. | 10,685 | 11,325 | 200 | 11,125 | 259 | |
| | Mangalore range.. .. | 7,825 | 7,825 | 650 | 7,175 | 168 | |
| | Uppinangadi range .. | 4,620 | 4,632 | 27 | 4,605 | 404 | |
| | Puttur range .. .. | 2,460 | 5,256 | .. | 5,256 | 118 | |
| | Total, General, South Canara. | 40,904 | 45,542 | 1,133 | 44,409 | 1,089 | |
| North Malabar—Special .. | .... | 21,499 | 65,612 | 100 | 65,512 | 1,091 | |
| General .. | .... | 10,923 | .. | .. | .. | .. | |
| | Total, North Malabar .. | 32,422 | 65,612 | 100 | 65,512 | 1,091 | |

## Area of Forest Tracts protected from Fire during 1896-97—*cont.*

| District. | Ranges or taluks. | Area actually protected up to 30th June 1896. | During dry season of 1896-97. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | | Area attempted to be protected. | Fires. | Actually protected. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | *Southern Circle*—cont. | ACS. | ACS. | ACS. | ACS. | RS. | |
| South Malabar—Special.. | Nilambur range .. .. | 4,571 | 4,685 | .. | 4,685 | 807 | |
| | Amarampalam range .. | 80,679 | 80,779 | .. | 80,779 | 470 | |
| | Palghat range .. .. | 18,344 | 18,344 | .. | 18,344 | 969 | |
| | Total, Special, South Malabar. | 103,594 | 103,808 | .. | 103,808 | 2,246 | |
| The Nilgiris—Special .. | .... | 10,446 | 11,475 | 1,386 | 10,089 | 1,676 | |
| General .. | .... | 71,722 | 71,740 | .. | 71,740 | 146 | |
| | Total, Special and General, Nilgiris. | 82,168 | 83,215 | 1,386 | 81,829 | 1,822 | |
| North Coimbatore—Special.. | Satyamangalam range .. | 5,648 | 5,648 | .. | 5,648 | 118 | |
| | Kollegal range .. .. | 4,676 | 4,691 | .. | 4,691 | 382 | |
| | Talamalai range .. .. | .. | 332 | .. | 332 | 16 | |
| South Coimbatore— | Total, Special, North Coimbatore. | 10,324 | 10,671 | .. | 10,671 | 516<br>(*a*) +3 | (*a*) Sundries. |
| Special.. | Tunacadavu range .. | 23,520 | 24,000 | .. | 24,000 | 544 | |
| | Pollachi range .. .. | 9,675 | 9,775 | .. | 9,775 | 479 | |
| | Udamalpet range .. | 485 | 485 | .. | 485 | 45 | |
| | Méttupálaiyam range .. | 230 | 230 | .. | 230 | 182 | |
| | Bolampatti range .. | (*b*) 22,364 | 23,433 | 67 | 23,366 | 1,025 | (*b*) The Sholakarai range has been amalgamated with the Bolampatti range from 1st April 1897. |
| | Total, Special, South Coimbatore. | 56,274 | 57,923 | 67 | 57,856 | 2,275 | |
| General.. | Tunacadavu .. .. | 357,557 | 38,843 | .. | 38,843 | *Nil.* | |
| | Pollachi .. .. | | 72,543 | .. | 72,543 | | |
| | Udamalpet .. .. | | 141,544 | 750 | 140,794 | | |
| | Méttupalaiyam .. .. | | 49,370 | .. | 49,370 | | |
| | Bolampatti .. .. | | 58,069 | 1,440 | 56,629 | | |
| | Total, General, South Coimbatore. | 357,557 | 360,369 | 2,190 | 358,179 | .. | |
| | Total, Special and General, South Coimbatore. | 413,831 | 418,292 | 2,257 | 416,035 | 2,275 | |
| Madura—Special .. | .... | 176,515 | 182,122 | 1,242 | 180,880 | 3,562 | |
| General .. | .... | 33,509 | 36,632 | 220 | 36,412 | .. | |
| | Total, Special and General, Madura. | 210,024 | 218,754 | 1,462 | 217,292 | 3,562 | |
| Tinnevelly—Special .. | Ambásamudram taluk .. | 8,880 | 9,225 | 22 | 9,203 | 172 | |
| | Nanguneri taluk .. .. | 3,996 | 2,918 | .. | 2,918 | 147 | |
| | Tenkási taluk .. .. | 3,060 | 1,856 | 141 | 1,715 | 88 | |
| | Sankaranayinárkóyil taluk | 5,000 | 5,000 | 4 | 4,996 | 117 | |
| | Srívilliputtur taluk .. | 3,992 | 7,706 | 1 | 7,705 | 134 | |
| | Total, Special, Tinnevelly. | 24,928 | 26,705 | 168 | 26,537 | 648 | |
| General .. | Ambasamudram taluk .. | 79,856 | 81,034 | 2,762 | 78,272 | 177 | |
| | Nanguneri taluk.. .. | 46,987 | 48,199 | 200 | 47,999 | 145 | |
| | Tenkási taluk .. .. | 19,069 | 20,624 | 1,355 | 19,269 | 172 | |
| | Sankaranayinárkóyil taluk | 19,459 | 21,534 | 250 | 21,284 | 171 | |
| | Srívilliputtúr taluk .. | 38,663 | 35,264 | 600 | 34,664 | 27 | |
| | Total, General, Tinnevelly | 204,034 | 206,655 | 5,167 | 201,488 | 692<br>(*c*)— 14 | (*c*) Added or subtracted as per Accountant-General's audited figures. |
| | Total, Special and General, Tinnevelly. | 228,962 | 233,360 | 5,335 | 228,025 | 1,326 | |
| | Total, Southern Circle— | | | | | | |
| | Special .. .. .. | 403,580 | 458,316 | 2,963 | 455,353 | 12,017 | |
| | General .. .. .. | 718,649 | 720,938 | 8,710 | 712,228 | 1,913 | |
| | Grand Total, Southern Circle. | 1,122,229 | 1,179,254 | 11,673 | 1,167,581 | 13,930 | |
| | Total, Presidency— | | | | | | |
| | Special .. .. .. | 1,006,830 | 1,285,217 | 11,502 | 1,273,715 | 22,791 | |
| | General.. .. .. | 2,347,293 | 2,146,846 | 36,376 | 2,110,470 | 16,552 | |
| | Grand Total, Presidency. | 3,354,123 | 3,432,063 | 47,878 | 3,384,185 | 39,343 | |

*N.B.*—Where Collectors have not reported the figures separately for special areas, they are shown under general. Where Collectors have not reported the figures separately for ranges or taluks, they are shown for the whole districts.

## ANNUAL FORM No. 52.

*Forest Department, Madras Presidency.*

AREA closed and open to grazing during 1896–97.

| District. | Total forest area as per Form No. 44. | Area in square miles. | | | | |
|---|---|---|---|---|---|---|
| | | Closed to all animals. | | Closed to goats and sheep. | | Open to all animals. |
| | | Whole year. | Part of year. | Whole year. | Part of year. | Whole year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Northern Circle.* | SQ. MLS. | | | | | |
| Ganjám .. .. .. .. .. .. | 556 | 123 | .. | (a) 556 | .. | .. |
| Vizagapatam .. .. .. .. .. | 415 | 1 | .. | 173 | .. | 242 |
| Gódávari .. .. .. .. .. | 953 | 12 | .. | 953 | .. | .. |
| Kistna .. .. .. .. .. .. | 1,164 | 132 | .. | 928 | .. | 236 |
| Kurnool .. .. .. .. .. | 2,331 | .. | 114 | 2,329 | .. | 2 |
| Bellary .. .. .. .. .. | 626 | (b) 43 | 112 | 445 | 96 | 181 |
| Anantapur .. .. .. .. .. | 514 | .. | .. | (c) 514 | .. | .. |
| Total, Northern Circle .. | 6,559 | 311 | 226 | 5,898 | 96 | 661 |
| *Central Circle.* | | | | | | |
| Cuddapah .. .. .. .. .. | 2,360 | 1 | .. | (a) 2,353 | .. | .. |
| Nellore .. .. .. .. .. | 683 | 7 | .. | 663 | .. | .. |
| Chingleput .. .. .. .. .. | 213 | 31 | .. | 205 | .. | 8 |
| North Arcot .. .. .. .. | 1,134 | 65 | .. | (a) 1,064 | .. | 70 |
| South Arcot .. .. .. .. .. | 715 | 20 | .. | (a) 715 | .. | .. |
| Salem .. .. .. .. .. .. | 1,439 | 63 | .. | (a) 1,434 | .. | 5 |
| Trichinopoly .. .. .. .. .. | 297 | 55 | .. | (a) 242 | .. | .. |
| Tanjore .. .. .. .. .. | 18 | 1 | .. | 18 | .. | .. |
| Total, Central Circle .. | 6,859 | 243 | .. | 6,694 | .. | 83 |
| *Southern Circle.* | | | | | | |
| South Canara .. .. .. .. .. | 1,109 | 22 | .. | (a) 1,109 | .. | .. |
| Malabar, North .. .. .. .. | 274 | 52 | .. | 274 | .. | .. |
| Do. South .. .. .. .. | 328 | 328 | .. | * 328 | .. | .. |
| The Nilgiris .. .. .. .. .. | 450 | 5 | .. | (a) 450 | .. | .. |
| Coimbatore, North .. .. .. .. | 1,623 | 215 | .. | (a) 1,623(d) | .. | .. |
| Do. South .. .. .. .. | 657 | (e) 265 | .. | (a) 657 | .. | .. |
| Madura .. .. .. .. .. | 621 | 22 | .. | 621 | .. | .. |
| Tinnevelly .. .. .. .. .. | 427 | 304 | .. | (a) 427 | .. | .. |
| Total, Southern Circle .. | 5,489 | 1,213 | .. | 5,489 | .. | .. |
| Grand Total, Presidency .. | 18,907 | 1,767 | 226 | 18,081 | 96 | 744 |

* No demand for grazing.
(a) Closed to goats only.
(b) Includes forty square miles of leased forests.
(c) Sixty-five square miles open to sheep.
(d) In 17 square miles sheep were also not admitted.
(e) Under consideration.

## ANNUAL FORM No. 53.

*Forest Department, Madras Presidency.*

## AREA of Plantations, 1896–97.

| District. | Number of plantations. | Area in acres. | | | | Receipts | Charges | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | On 1st July 1896. | Added during the year. | Excluded during the year. | Area on 30th June 1897. | Of the year. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| REGULAR PLANTATIONS. | | ACS. | ACS. | ACS. | ACS. | RS. | RS. | |
| *Northern Circle.* | | | | | | | | |
| Ganjám .. .. .. | 1 | 241 | 63 | .. | 304 | 12 | 9,484 | |
| Vizagapatam .. .. | .. | .. | .. | .. | .. | .. | .. | |
| Gódávari .. .. .. | 2 | 476 | .. | .. | 476 | 2,858 | 1,110 | |
| Kistna .. .. .. | 18 | 1,287 | 197 | .. | 1,484 | 1,353 | 2,346 | |
| Total .. | 21 | 2,004 | 260 | .. | 2,264 | 4,223 | 12,940 | |
| *Central Circle.* | | | | | | | | |
| Cuddapah .. .. .. | 8 | 2,100 | .. | (a)2,100 | . | 44 | 470 | (a) Included in reserved forest and so omitted. |
| Nellore .. .. .. | 9 | 3,053 | .. | .. | 3,053 | 31,781 | 1,860 | (b) By rectification. |
| Chingleput .. .. | 4 | 352 | .. | .. | 352 | 321 | 370 | (c) Includes Rs. 380 Municipal tax on plantation lands. |
| North Arcot .. .. | 6 | 1,048 | .. | .. | 1,048 | 1,532 | 4,414 | |
| South Arcot .. .. | 13 | 1,920 | (b) 6,698 | .. | 8,618 | 4,740 | (c) 2,694<br>(d) —19 | (d) Added or deducted as per Accountant-General's audited figures. |
| Tanjore .. .. .. | 4 | 703 | .. | (e) 60<br>(b)104 | 539 | 3,571 | 1,263 | (e) Unreserved lands looked after by the Revenue subordinates. |
| Total ... | 44 | 9,176 | 6,698 | 2,264 | 13,610 | 41,989 | 11,052 | |
| *Southern Circle.* | | | | | | | | |
| South Canara .. .. | 3 | 183 | .. | .. | 183 | 1,799 | 62 | (f) Failures. |
| North Malabar .. .. | 11 | 401 | 37<br>(b)481 | (f) 200 | 719 | .. | 1,066 | (g) Of this, Rs. 2,634 appertain to 80 acres in Karumpoya reserve prepared for teak planting. |
| South do. .. .. | 17 | 4,439 | (b) 158 | (b) 37 | 4,560 | 20,325 | (g) 8,380 | |
| The Nilgiris .. .. | 22 | 1,610 | .. | .. | 1,610 | 5,484 | 501<br>(h)+423 | (h) Municipal assessment. |
| South Coimbatore .. | 4 | 28 | .. | .. | 28 | .. | .. | |
| Madura .. .. .. | 8 | 226 | 7 | 21 | 212 | 992 | 441 | |
| Total .. | 65 | 6,887 | 683 | 258 | 7,312 | 28,600 | 10,873 | |
| Grand Total, Regular Plantations .. .. | 130 | 18,067 | 7,641 | 2,522 | 23,186 | 74,812 | 34,865 | |

LIBRARY OF THE BOMBAY

## ANNUAL FORM No. 53.

*Forest Department, Madras Presidency.*

## AREA of Plantations, 1896–97.

| District. | Number of plantations. | Area in acres. On 1st July 1896. | Added during the year | Excluded during the year. | Area on 30th June 1897. | Receipts Of the year. | Charges Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| CULTURAL OPERATIONS. | | | | | | RS. | RS. | |
| *Northern Circle.* | | | | | | | | |
| Direction .. .. .. | .. | .. | .. | .. | .. | .. | 8 | (a) Planting up certain bungalow and range house compounds. |
| Ganjám .. .. .. | .. | 404 | .. | .. | 404 | 13 | 176 | |
| Vizagapatam .. .. | .. | .. | .. | .. | .. | .. | 10 | |
| Gódávari .. .. .. | .. | .. | .. | .. | .. | .. | (a) 22 | |
| Kistna .. .. .. | .. | 62 | .. | .. | 62 | 11 | 1,012 | (b) Failure. |
| Kurnool .. .. .. | .. | .. | .. | .. | .. | .. | (a) 41 | (c) Expenditure on bamboo planting. |
| Bellary .. .. .. | .. | 358 | 105 | 331 | 132 | .. | 1,407 | |
| Anantapur .. .. | .. | 52 | 139 | (b) 40 | 151 | 71 | (f) + 14 / 208 | (d) Expenditure on exotics. |
| Total .. | .. | 876 | 244 | 371 | 749 | 95 | 2,898 | (e) Rectification. |
| *Central Circle.* | | | | | | | | (f) Added or deducted as per Accountant-General's audited figures. |
| Cuddapah .. .. .. | .. | 601 | .. | .. | 601 | 21 | 270 | |
| Nellore .. .. .. | .. | 1,132 | .. | .. | 1,132 | .. | 144 | |
| Chingleput .. .. | .. | .. | .. | .. | .. | .. | .. | (g) Excluded being unreserved lands looked after by the revenue subordinates or abandoned or excluded by rectification. |
| North Arcot .. .. | .. | 1,562 | .. | 6 | 1,556 | 11 | 2,704 | |
| South Arcot .. .. | .. | 1,490 | .. | .. | 1,490 | .. | (c) 3,057 / (d) + 33 | |
| Trichinopoly .. .. | .. | 100 mls. 94 acs. | (e) 10 | 10 mls. (e) 10 | 90 mls. 104 acs. | 1,480 | 87 / (f)+1,187 | |
| Tanjore .. .. .. | .. | 1,248 | .. | (g) 492 | 756 | .. | .. | |
| Total .. | .. | 6,127 mls. 100 | 10 | 498 mls. 10 | 5,639 mls. 90 | 1,512 | 7,482 | |
| *Southern Circle.* | | | | | | | | |
| The Nilgiris .. .. | .. | 479 | .. | .. | 479 | .. | 940 | |
| South Coimbatore .. | .. | 175 | 52 | .. | 227 | .. | 539 / (f) — 3 | |
| Tinnevelly .. .. | .. | 3,396 | 8 | .. | 3,404 | 16 | 266 | |
| Total, Southern Circle .. | .. | 4,050 | 60 | .. | 4,110 | 16 | 1,742 | |
| Total, Cultural operations. | .. | 11,053 mls. 100 | 314 | 869 mls. 10 | 10,498 mls. 90 | 1,623 | 12,122 | |
| Total, Regular plantation, and cultural operations, Northern Circle. | .. | 2,880 | 504 | 371 | 3,013 | 4,318 | 15,838 | |
| Total, Regular plantations and cultural operations, Central Circle. | .. | 15,303 mls. 100 | 6,708 | 2,762 mls. 10 | 19,249 mls. 90 | 43,501 | 18,534 | |
| Total, Regular plantations and cultural operations, Southern Circle. | .. | 10,937 | 743 | 258 | 11,422 | 28,616 | 12,615 | |
| Presidency total, Plantations and cultural operations .. | .. | 29,120 mls. 100 | 7,955 | 3,391 mls. 10 | 33,684 mls. 90 | 76,435 | 46,987 | |

## ANNUAL FORM No. 54.

### *Forest Department, Madras Presidency.*

### ANNUAL list of topes.

| District. | Number of topes. | Chief trees. | Area. | Cost. During year. | Cost. To end of year. |
|---|---|---|---|---|---|
| *Northern Circle.* | | | ACS. | RS. | RS. |
| Ganjám .. .. .. | 7 | Miscellaneous .. .. .. .. .. | 101 | .. | 922 |
| Vizagapatam .. .. | 2 | Teak, sal and vellu grass .. .. .. .. | 78 | 237 | 1,020 |
| Gódávari .. .. .. | .. | .... | .. | .. | .. |
| Kistna .. .. .. | (*a*) 11 | Casuarina, graft mangoes, tamarind, margosa, nim, palmyras, soapnut, &c. | 57 | 736 | 3,659 |
| Kurnool .. .. .. | (*b*) 30 | Tamarind, mango and ippa .. .. .. | 206 | 183 / (*c*)— 4 | 9,914 |
| Bellary .. .. .. | 30 | Casuarina, tamarind, mango, margosa, figs, &c. | 212 | 291 | 2,300 |
| Anantapur .. .. | 95 | Palmyra, babul and tamarind .. .. .. | 2,885 | 86 | 9,313 |
| Total .. | 175 | Total .. | 3,539 | 1,529 | 27,128 |
| *Central Circle.* | | | | | |
| Cuddapah .. .. | 71 | Palmyrah, mango, tamarind, margosa, dirasanam, casuarina, babul, tella tumma, orange, coffee, tangedu and other ornamental trees. | 1,630 | 262 | 61,518 |
| Chingleput .. .. | 10 | Mango, margosa, tamarind, jack, iluppai, casuarina, korakapili, cocoanut and wood-apple. | 99 | 125 | 9,375 |
| North Arcot .. .. | 71 | Mango, fig, palmyrah, cocoanut, illuppai, wood-apple, tamarind, date, banyan, babul, teak, jack, orange, soapnut, casuarina, &c. | 1,938 | 668 | 45,450 |
| South Arcot .. .. | (*d*) 64 | Tamarind, iluppai, palmyra, nagai, vembu, mango, kattuvagai, puvarasu, babul, red-sanders, ceara rubber, sissu, cashew, casuarina, nelli. | (*d*) 465 | .. | 9,027 |
| Salem .. .. .. | (*e*) 126 | Vagai, mango, pungam, nagai, casuarina, seemai-avaram, illupai, tamarind, palmyra, thurinji, cocoanut, margosa. | (*e*) 1,598 | .. | 93,036 |
| Trichinopoly .. .. | (*f*) 19 | Mango, cocanut, bamboo, sissu, tamarind, palmyra and elandai. | 73 / (*f*) 500 | 70 | 1,944 |
| Total .. | 361 | Total .. | 6,303 | 1,125 | 2,20,350 |
| *Southern Circle.* | | | | | |
| North Malabar .. .. | (*g*) 10 | Eucalyptus, ceara rubber, mahoghany, ficus elastica, dendrocalamus, brandesese and other bamboos, pepper wines, Liberian coffee plants. | (*g*) 56 | 396 / (*c*)+ 83 | 5,063 |
| South do. .. .. | 1 | Mango, *pongamia glabra*, tamarind, *terminalia paniculata*, eugenia jambolana. | 20 | .. | 9 |
| Coimbatore, North .. | 5 | Palmyra, sandalwood, *acacia arabica*, *albizzia amara lebbeck melia*, satinwood. | 317 | (*c*) 103 | (*h*) 103 |
| Do. South .. | 23 | Tamarind, palmyra, cocoanut and pasturage .. | 267 | 40 | 5,290 |
| Madura .. .. .. | (*i*) 24 | .... | 91 | .. | 18,893 |
| Tinnevelly .. .. | 9 | Mango, tamarind, gooseberry, palmyras, bamboos, banyan, jack, illuppai, teak, vengai, casuarina and nim. | 84 | 114 | 2,332 |
| Total .. | 72 | .... | 835 | 736 | 31,690 |
| Grand Total, Presidency. | 608 | .... | 10,677 | 3,390 | 2,79,168 |

(*a*) The Bezwada Head Assistant Collector's office compound was added during the year.
(*b*) One tope of 4 acres added during the year.
(*c*) Added or deducted to tally with the audited figures of the Accountant-General.
(*d*) Five topes were transferred to list of reserves and one expunged from the list having been ordered to be sold in auction. Hence the decrease in the number and area of the topes.
(*e*) Three topes of 263 acres excluded; one tope of 2 acres added; 5 acres added by rounding off fractions.
(*f*) The upper anicut padugais of about 500 acres were added during the year.
(*g*) Eight topes of 36 acres added.
(*h*) Cost of the previous years not reported.
(*i*) *Vide* remark in the report for 1895-96.

## ANNUAL FORM No. 55.

*Forest Department, Madras Presidency.*

OUTTURN (in cubic feet, solid) of Timber and Fuel during the year 1896-97, and Agency of Exploitation.

| District. | Timber. | | | | | Fuel. | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government. | Purchasers. | Free-grantees. | Right-holders. | Total. | Government. | Purchasers. | Free-grantees. | Right-holders. | Total. | Outturn. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *Northern Circle.* | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. | C. FT. |
| Ganjám .. .. .. .. .. | 23,265 | 109,820 | 2,940 | .. | 136,025 | 456 | 607,603 | .. | .. | 608,059 | 744,084 |
| Vizagapatam .. .. .. .. .. | 1,723 | 95,283 | 2,820 | .. | 99,876 | 38,001 | 218,525 | .. | .. | 256,526 | 356,402 |
| Godávari .. .. .. .. .. | .. | 359,252 | 4,296 | .. | 363,548 | .. | 429,017 | .. | .. | 429,017 | 792,565 |
| Kistna .. .. .. .. .. | 28,480 | 180,964 | 10,260 | .. | 219,704 | 6,161 | 322,927 | .. | .. | 329,088 | 548,792 |
| Kurnool .. .. .. .. .. | 9,792 | 213,555 | 13,300 | 1,311 | 237,958 | 215 | 302,672 | .. | 257,510 | 560,397 | 798,355 |
| Bellary .. .. .. .. .. | 25,384 | 98,458 | 2,010 | .. | 125,852 | 19,440 | 423,008 | .. | .. | 442,448 | 568,300 |
| Anantapur .. .. .. .. .. | .. | 20,981 | 2,384 | .. | 23,365 | .. | 122,246 | .. | .. | 122,246 | 145,611 |
| Total .. | 88,694 | 1,078,313 | 38,010 | 1,311 | 1,206,328 | 64,273 | 2,425,998 | .. | 257,510 | 2,747,781 | 3,954,109 |
| *Central Circle.* | | | | | | | | | | | |
| Cuddapah .. .. .. .. .. | 44,571 | 185,668 | 1,200 | .. | 231,439 | 5,260 | 636,719 | .. | .. | 641,979 | 873,418 |
| Nellore .. .. .. .. .. | 1,526 | 209,066 | 27,750 | .. | 238,342 | 287,352 | 174,543 | .. | .. | 461,895 | 700,237 |
| Chingleput .. .. .. .. .. | .. | 99,934 | .. | .. | 99,934 | 2,074 | 124,420 | .. | .. | 126,494 | 226,428 |
| North Arcot .. .. .. .. .. | 1,198 | 22,937 | 4,514 | .. | 28,639 | 181,025 | 351,987 | .. | .. | 533,012 | 561,651 |
| South Arcot .. .. .. .. .. | 1,503 | 28,088 | 830 | .. | 30,421 | 226,000 | 374,382 | 400 | .. | 600,782 | 631,203 |
| Salem .. .. .. .. .. | 3,533 | 223,659 | 238 | .. | 227,430 | 681,618 | 420,547 | .. | .. | 1,102,165 | 1,329,595 |
| Trichinopoly .. .. .. .. .. | .. | 18,785 | 2,944 | .. | 21,729 | 151,777 | 1,227,814 | .. | .. | 1,379,591 | 1,401,320 |
| Tanjore .. .. .. .. .. | .. | 23,143 | .. | .. | 23,143 | 94 | 549,277 | .. | .. | 549,371 | 572,514 |
| Total .. | 52,321 | 811,280 | 37,476 | .. | 901,077 | 1,535,200 | 3,859,689 | 400 | .. | 5,395,289 | 6,296,366 |
| *Southern Circle.* | | | | | | | | | | | |
| South Canara .. .. .. .. | 23,002 | 12,435 | 15 | .. | 35,452 | 13,728 | 755,584 | .. | .. | 769,312 | 804,764 |
| North Malabar .. .. .. .. | 58,740 | 3,350 | 4,880 | .. | 66,970 | .. | 1,754 | 6,272 | .. | 8,026 | 74,996 |
| South Malabar .. .. .. .. | 124,823 | 57,488 | .. | .. | 182,311 | 1,500 | 78,234 | .. | .. | 79,734 | 262,045 |
| Nilgiris .. .. .. .. .. | 31,718 | 4,788 | 20 | 391 | 36,917 | 425,056 | 14,080 | .. | 31 | 439,167 | 476,084 |
| North Coimbatore .. .. .. .. | 1,635 | .. | 544 | .. | 2,179 | .. | .. | .. | .. | .. | 2,179 |
| South Coimbatore .. .. .. .. | 64,416 | 18,410 | 790 | .. | 83,616 | 245,448 | 659,367 | 540 | .. | 905,355 | 988,971 |
| Madura .. .. .. .. .. | 1,042 | 18,768 | .. | .. | 19,810 | 50,592 | 107,863 | .. | .. | 158,455 | 178,265 |
| Tinnevelly .. .. .. .. .. | 3,597 | 25,911 | 1,216 | .. | 30,724 | 114,271 | 1,252,523 | .. | .. | 1,366,794 | 1,397,518 |
| Total .. | 308,973 | 141,150 | 7,465 | 391 | 457,979 | 850,595 | 2,869,405 | 6,812 | 31 | 3,726,843 | 4,184,822 |
| Grand Total .. | 449,988 | 2,030,743 | 82,951 | 1,702 | 2,565,384 | 2,450,068 | 9,155,092 | 7,212 | 257,541 | 11,869,913 | 14,435,297 |

## Annual Form No. 56.

*Forest Department, Madras Presidency.*

Outturn of Minor Forest Produce during the year 1896–97.

| Circle. | Description of produce. | Produce removed or utilized. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right-holders. | | Total. | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value | Quantity. | Value. | Quantity. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Northern Circle .. .. | Bamboos .. .. .. .. | NO. 7,349 | RS. 264 | NO. 15,905,473 | RS. 69,664 | NO. 73,046 | RS. 336 | NO. 20,489 | RS. 128 | NO. 16,006,357 | RS. 70,392 |
| | Grass and grazing .. .. .. | MDS. 21,109 | 236 | .. | 1,23,939 | .. | 129 | .. | 700 | .. | 1,25,004 |
| | Gallnuts, Soapnuts .. .. .. | 252 | 149 | MDS. 25,880 | | | | | | | |
| | Miscellaneous .. .. .. | 529 | 326 | 71,640 C. L. 279 | 1,58,319 | .. | 605 | .. | 38,450 | .. | 1,97,849 |
| | Total .. | .. | 975 | .. | 3,51,922 | .. | 1,070 | .. | 39,278 | .. | 3,93,245 |
| Central Circle .. .. | Bamboos .. .. .. .. | NO. 23,542 | 9,290 | NO. 12,442,370 | 91,468 | NO. 70,270 | 426 | .. | .. | NO. 12,536,182 | 1,01,184 |
| | Grass and grazing .. .. .. | .. | .. | .. | 1,78,438 | .. | 74 | .. | 356 | .. | 1,78,868 |
| | Gallnuts, Soapnuts, Nuxvomica .. | MDS. 1,318 | 855 | .. | .. | .. | .. | .. | .. | .. | 855 |
| | Miscellaneous .. .. .. | 427 | 399 | C. L. 42,079 | 2,19,072 | C. L. 296 | 840 | .. | .. | .. | 2,20,311 |
| | Total .. | .. | 10,544 | .. | 4,88,978 | .. | 1,340 | .. | 356 | .. | 5,01,218 |
| Southern Circle .. .. | Bamboos .. .. .. .. | NO. 198,961 | 4,050 | NO. 2,065,094 | 18,149 | NO. 14,645 | 189 | NO. 1,125 | 3 | NO. 2,279,825 | 22,391 |
| | Grass and grazing .. .. .. | .. | .. | .. | 71,117 | .. | .. | .. | 829 | .. | 71,946 |
| | Catechu .. .. .. .. | MDS. 1,518 | 12,072 | .. | .. | .. | .. | .. | .. | .. | 12,072 |
| | Gallnuts, Soapnuts, Nuxvomica .. | 21,038 | 20,872 | .. | .. | .. | .. | .. | .. | .. | 20,872 |
| | Miscellaneous .. .. .. | 2,952 | 12,837 | MDS. 718 C. L. 43,342 NO. 18,500 | 1,00,548 | MDS. 400 | 125 | .. | 432 | .. | 1,13,942 |
| | Total .. | .. | 49,331 | .. | 1,89,814 | .. | 314 | .. | 1,264 | .. | 2,41,223 |
| | Grand Total .. | .. | 61,350 | .. | 10,30,714 | .. | 2,724 | .. | 40,898 | .. | 11,35,686 |

## ANNUAL FORM No. 57.

*Forest Department, Madras Presidency.*

ACCOUNT of Timber cut or collected by Government Agency and brought to depôt, sold locally, or otherwise disposed of during the year 1896-97.

| Name of district. | Balance at commencement of the year in forests and sale depôts. | Received during the year. | Total. | Disposed of during the year. | Balance in hand at close of the year in forests and sale depôts. |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| **TIMBER (CUBIC FEET).** | | | | | |
| *Northern Circle.* | | | | | |
| Ganjám | 2,028 | 23,265 | 25,293 | 17,170 | 8,123 |
| Vizagapatam | .. | 1,773 | 1,773 | 1,773 | .. |
| Gódávari | .. | .. | .. | .. | .. |
| Kistna | .. | 28,480 | 28,480 | 19,605 | 8,875 |
| Kurnool | 2,302 | 9,792 | 12,094 | 7,918 | 4,176 |
| Bellary | 20,682 | 25,384 | 46,066 | 21,307 | 24,759 |
| Anantapur | .. | .. | .. | .. | .. |
| Total .. | 25,012 | 88,694 | 113,706 | 67,773 | 45,933 |
| *Central Circle.* | | | | | |
| Cuddapah | 20 | 44,571 | 44,591 | 40,455 | 4,136 |
| Nellore | 42 | 1,526 | 1,568 | 1,568 | .. |
| Chingleput | .. | .. | .. | .. | .. |
| North Arcot | 47 | 1,188 | 1,235 | 212 | 1,023 |
| South Arcot | 576 | 1,503 | 2,079 | 1,006 | 1,073 |
| Salem | 624 | 3,533 | 4,157 | 3,539 | 618 |
| Trichinopoly | .. | .. | .. | .. | .. |
| Tanjore | .. | .. | .. | .. | .. |
| Total .. | 1,309 | 52,321 | 53,630 | 46,780 | 6,850 |
| *Southern Circle.* | | | | | |
| South Canara | 12,051 | 23,002 | 35,053 | 10,188 | 24,865 |
| Malabar (North) | 47,647 | 58,740 | 106,387 | 44,056 | 62,331 |
| Do. (South) | 85,322 | 124,823 | 210,145 | 112,081 | 98,064 |
| Nilgiris | 3,709 | 31,718 | 35,427 | 32,440 | 2,987 |
| Coimbatore (North) | 2,925 | 1,635 | 4,560 | 1,595 | 2,965 |
| Do. (South) | 63,748 | 64,416 | 128,164 | 49,798 | 78,366 |
| Madura | 661 | 1,042 | 1,703 | 852 | 851 |
| Tinnevelly | 2,464 | 3,597 | 6,061 | 3,927 | 2,134 |
| Total .. | 218,527 | 308,973 | 527,500 | 254,937 | 272,563 |
| Grand Total .. | 244,848 | 449,988 | 694,836 | 369,490 | 325,346 |
| **FUEL (CUBIC FEET).** | | | | | |
| *Northern Circle.* | | | | | |
| Ganjám | .. | 456 | 456 | 456 | .. |
| Vizagapatam | 149 | 38,001 | 38,150 | 38,150 | .. |
| Gódávari | .. | .. | .. | .. | .. |
| Kistna | 3,348 | 6,161 | 9,509 | 4,482 | 5,027 |
| Kurnool | 22,916 | 215 | 23,131 | 11,979 | 11,152 |
| Bellary | 202,466 | 19,440 | 221,906 | 153,304 | 68,602 |
| Anantapur | .. | .. | .. | .. | .. |
| Total .. | 228,879 | 64,273 | 293,152 | 208,371 | 84,781 |
| *Central Circle.* | | | | | |
| Cuddapah. | 5,170 | 5,260 | 10,430 | 10,430 | .. |
| Nellore | 106,599 | 287,352 | 393,951 | 325,521 | 68,430 |
| Chinglepat | .. | 2,074 | 2,074 | 2,074 | .. |
| North Arcot | 113,950 | 181,025 | 294,975 | 89,292 | 205,683 |
| South Arcot | 14,409 | 226,000 | 240,409 | 221,652 | 18,757 |
| Salem | 4,260 | 681,618 | 685,878 | 681,613 | 4,265 |
| Trichinopoly | 60,322 | 151,777 | 212,099 | 122,754 | 89,345 |
| Tanjore | .. | 94 | 94 | 94 | .. |
| Total .. | 304,710 | 1,535,200 | 1,839,910 | 1,453,430 | 386,480 |
| *Southern Circle.* | | | | | |
| South Canara | 1,910 | 13,728 | 15,638 | 14,873 | 765 |
| Malabar (North) | .. | .. | .. | .. | .. |
| Do. (South) | .. | 1,500 | 1,500 | 1,425 | 75 |
| Nilgiris | 326,784 | 425,056 | 751,840 | 422,679 | 329,161 |
| Coimbatore (North) | 520 | .. | 520 | 520 | .. |
| Do. (South) | 43,666 | 245,448 | 289,114 | 278,380 | 10,734 |
| Madura | 4,103 | 50,592 | 54,695 | 51,623 | 3,072 |
| Tinnevelly | 39,280 | 114,271 | 153,551 | 132,799 | 20,752 |
| Total .. | 416,263 | 850,595 | 1,266,858 | 902,299 | 364,559 |
| Grand Total .. | 949,852 | 2,450,068 | 3,399,920 | 2,564,100 | 835,820 |

## Account of Fuel collected by Government Agency and brought to depôt, sold locally, or otherwise disposed of during the year—*continued.*

| Name of district. | Balance at commencement of the year in forests and sale depôts. | Received during the year. | Total. | Disposed of during the year. | Balance in hand at close of the year in forests and sale depôts. |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| **MINOR FOREST PRODUCE (MAUNDS OF 25 LB.).** | | | | | |
| *Northern Circle.* | | | | | |
| Ganjám .. .. .. .. .. | .. | .. | .. | .. | .. |
| Vizagapatam .. .. .. .. .. | 66,564 | 21,109 | 87,673 | 21,109 | 66,564 |
| Gódávari .. .. .. .. .. | .. | .. | .. | .. | .. |
| Kistna .. .. .. .. .. | 62 | 1 | 63 | 63 | .. |
| Kurnool .. .. .. .. .. | 99 | 544 | 643 | 588 | 55 |
| Bellary .. .. .. .. .. | 45 | 236 | 281 | 199 | 82 |
| Anantapur .. .. .. .. .. | .. | .. | .. | .. | .. |
| Total .. | 66,770 | 21,890 | 88,660 | 21,959 | 66,701 |
| *Central Circle.* | | | | | |
| Cuddapah .. .. .. .. .. | .. | 455 | 455 | .. | 455 |
| Nellore .. .. .. .. .. | 6,164 | 1,005 | 7,169 | 1,381 | 5,788 |
| Chingleput .. .. .. .. .. | .. | .. | .. | .. | .. |
| North Arcot .. .. .. .. .. | .. | 100 | 100 | 100 | .. |
| South Arcot .. .. .. .. .. | .. | .. | .. | .. | .. |
| Salem .. .. .. .. .. | 7,036 | .. | 7,036 | 7,036 | .. |
| Trichinopoly .. .. .. .. .. | .. | 185 | 185 | 185 | .. |
| Tanjore .. .. .. .. .. | .. | .. | .. | .. | .. |
| Total .. | 13,200 | 1,745 | 14,945 | 8,702 | 6,243 |
| *Southern Circle.* | | | | | |
| South Canara .. .. .. .. .. | .. | 1,673 | 1,673 | 1,516 | 157 |
| Malabar (North) .. .. .. .. | 37 | 128 | 165 | 122 | 43 |
| Malabar (South) .. .. .. | 134 | 283 | 417 | 156 | 261 |
| Nilgiris .. .. .. .. .. | 1,112 | 505 | 1,617 | 1,122 | 495 |
| Coimbatore (North) .. .. .. | 184 | 19,400 | 19,584 | 14,254 | 5,330 |
| Coimbatore (South) .. .. .. .. | 19 | 3,469 | 3,488 | 3,210 | 278 |
| Madura .. .. .. .. .. | .. | .. | .. | .. | .. |
| Tinnevelly .. .. .. .. .. | .. | 50 | 50 | 50 | .. |
| Total .. | 1,486 | 25,508 | 26,994 | 20,430 | 6,564 |
| Grand Total .. | 81,456 | 49,143 | 130,599 | 51,091 | 79,508 |
| **BAMBOO (NUMBER).** | | | | | |
| *Northern Circle.* | | | | | |
| Ganjám .. .. .. .. .. | .. | 1,115 | 1,115 | 1,085 | 30 |
| Vizagapatam .. .. .. .. .. | .. | 880 | 880 | 880 | .. |
| Gódávari .. .. .. .. .. | .. | .. | .. | .. | .. |
| Kistna .. .. .. .. .. | .. | .. | .. | .. | .. |
| Kurnool .. .. .. .. .. | 5,280 | 3,200 | 8,480 | 4,400 | 4,080 |
| Bellary .. .. .. .. .. | 853 | 2,154 | 3,007 | 1,616 | 1,391 |
| Anantapur .. .. .. .. .. | .. | .. | .. | .. | .. |
| Total .. | 6,133 | 7,349 | 13,482 | 7,981 | 5,501 |
| *Central Circle.* | | | | | |
| Cuddapah .. .. .. .. .. | .. | .. | .. | .. | .. |
| Nellore .. .. .. .. .. | .. | .. | .. | .. | .. |
| Chingleput .. .. .. .. .. | .. | .. | .. | .. | .. |
| North Arcot .. .. .. .. .. | 1,293 | 5,737 | 7,030 | 5,183 | 1,847 |
| South Arcot .. .. .. .. .. | .. | 10,212 | 10,212 | 7,868 | 2,344 |
| Salem .. .. .. .. .. | .. | 7,593 | 7,593 | 7,593 | .. |
| Trichinopoly .. .. .. .. .. | .. | .. | .. | .. | .. |
| Tanjore .. .. .. .. .. | .. | .. | .. | .. | .. |
| Total .. | 1,293 | 23,542 | 24,835 | 20,644 | 4,191 |
| *Southern Circle.* | | | | | |
| South Canara .. .. .. .. .. | .. | .. | .. | .. | .. |
| North Malabar .. .. .. .. | .. | .. | .. | .. | .. |
| South Malabar .. .. .. .. | .. | 15,869 | 15,869 | 15,804 | 65 |
| Nilgiris .. .. .. .. .. | .. | .. | .. | .. | .. |
| North Coimbatore .. .. .. .. | .. | 105,966 | 105,966 | 100,206 | 5,760 |
| South Coimbatore .. .. .. .. | 11,800 | 76,900 | 88,700 | 84,500 | 4,200 |
| Madura .. .. .. .. .. | 520 | 6 | 526 | 526 | .. |
| Tinnevelly .. .. .. .. .. | .. | 220 | 220 | 220 | .. |
| Total .. | 12,320 | 198,961 | 211,281 | 201,256 | 10,025 |
| Grand Total .. | 19,746 | 229,852 | 249,598 | 229,881 | 19,717 |

## ANNUAL FORM No. 58.

*Forest Department, Madras Presidency.*

ABSTRACT showing the Value of Timber and other Produce at sale depôts, for the year 1896–97.

| Description of timber or produce. | On hand at commencement of the year. | | | On hand at close of the year. | | | Difference in value. | |
|---|---|---|---|---|---|---|---|---|
| | Number. | Cubic feet. | Value. | Number. | Cubic feet. | Value. | In favour of the year. | Against the year. |
| | | | RS. | | | RS. | RS. | RS. |
| *Northern Circle.* | | | | | | | | |
| Sal .. .. .. .. | .. | 1,544 | 580 | .. | 7,136 | 2,676 | .. | .. |
| Teak .. .. .. | .. | 371 | 462 | .. | 1,742 | 2,174 | .. | .. |
| Vengai .. .. .. | .. | 1,050 | 1,178 | .. | 2,422 | 2,420 | .. | .. |
| Miscellaneous .. .. | .. | 22.047 | 3,225 | .. | 34,633 | 6,392 | .. | .. |
| Total, Timber .. | .. | 25,012 | 5,445 | .. | 45,933 | 13,662 | 8,217 | .. |
| Fuel .. .. .. | .. | 228,879 | 11,509 | .. | 84,781 | 4,456 | .. | 7,053 |
| | NO. | | | NO. | | | | |
| Bamboos .. .. .. | 6,133 | .. | 350 | 5,501 | .. | 204 | .. | 146 |
| | MDS. | | | MDS. | | | | |
| Minor produce .. .. | 66,770 | .. | 899 | 66,701 | .. | 577 | .. | 322 |
| *Central Circle.* | | | | | | | | |
| Teak .. .. .. | .. | 255 | | .. | 117 | | | |
| Vengai .. .. .. | .. | 53 | 493 | .. | 48 | 1,838 | .. | .. |
| Red wood .. .. | .. | .. | | .. | 830 | | | |
| Miscellaneous .. .. | .. | 401 | | .. | 5,220 | | | |
| Sandalwood .. .. | .. | 600 | 6,010 | .. | 635 | 6,330 | .. | .. |
| Total, Timber .. | .. | 1,309 | 6,503 | .. | 6,850 | 8,168 | 1,665 | .. |
| Fuel .. .. .. | .. | 304,710 | 26,147 | .. | 386,480 | 18,623 | .. | 7,524 |
| | NO. | | | NO. | | | | |
| Bamboos .. .. .. | 1,293 | .. | 152 | 4,191 | .. | 317 | 165 | .. |
| | MDS. | | | MDS. | | | | |
| Minor produce .. .. | 13,200 | .. | 3,472 | 6,243 | .. | 3,641 | 169 | .. |
| *Southern Circle.* | | | | | | | | |
| Teak .. .. .. | .. | 60,711 | | .. | 93,061 | | | |
| Rosewood .. .. .. | .. | 4,006 | | .. | 4,049 | | | |
| Vengai .. .. .. | .. | 9,312 | 1,29,145 | .. | 9,416 | 1,49,916 | .. | .. |
| Iron wood .. .. .. | .. | 231 | | .. | 648 | | | |
| Miscellaneous .. .. | .. | 143,665 | | .. | 164,069 | | | |
| Sandalwood .. .. | .. | 602 | 6,513 | .. | 1,320 | 13,946 | .. | .. |
| Total, Timber .. | .. | 218,527 | 1,35,658 | .. | 272,563 | 1,63,862 | 28,204 | .. |
| Fuel .. .. .. | .. | 416,263 | 7,786 | .. | 364,559 | 5,269 | .. | 2,517 |
| | NO. | | | NO. | | | | |
| Bamboos .. .. .. | 12,320 | .. | 106 | 10,025 | .. | 65 | .. | 41 |
| | MDS. | | | MDS. | | | | |
| Minor produce .. .. | 1,486 | .. | 2,938 | 6,564 | .. | 8,740 | 5,802 | .. |
| *Grand Total.* | | | | | | | | |
| Timber .. .. .. | .. | 244,848 | 1,47,606 | .. | 325,346 | 1,85,692 | 38,086 | .. |
| Fuel .. .. .. | .. | 949,852 | 45,442 | .. | 835,820 | 28,348 | .. | 17,094 |
| | NO. | | | NO. | | | | |
| Bamboos .. .. .. | 19,746 | .. | 608 | 19,717 | .. | 586 | .. | 22 |
| | MDS. | | | MDS. | | | | |
| Minor produce .. .. | 81,456 | .. | 7,309 | 79,508 | .. | 12,958 | 5,649 | .. |
| | .. | .. | .. | .. | .. | .. | .. | .. |

## ANNUAL FORM No. 72-A (OLD CODE).

*Forest Department, Madras Presidency.*

TIMBER and other produce cut, collected and removed by consumers or purchasers during 1896–97.

| District. | Timber. | Firewood and charcoal. | Bamboos. | MONEY VALUE OF SALES. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Timber. | | Firewood and charcoal. | | Bamboos. | | Grazing and fodder grass. | | Minor produce. | | Total. | |
| | | | | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. | Amount of sales. | Amount actually realized during the year. |
| *Northern Circle.* | C. FEET. | C. FEET. | NO. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Ganjám .. .. .. | 109,820 | 607,603 | 1,298,560 | 10,248 | 10,275 | 7,955 | 7,955 | 4,531 | 4,531 | 5,295 | 5,295 | 4,650 | 4,650 | 32,679 | 32,706 |
| Vizagapatam .. .. | 95,283 | 218,525 | 1,789,040 | 6,608 | 5,375 | 5,158 | 5,161 | 8,928 | 8,951 | 2,762 | 2,762 | 2,751 | 6,609 | 26,207 | 28,858 |
| Gódávari .. .. .. | 359,252 | 429,017 | 8,567,482 | 44,431 | 44,431 | 13,944 | 13,944 | 37,573 | 37,573 | 4,147 | 4,119 | 3,311 | 3,180 | 1,03,406 | 1,03,247 |
| Kistna .. .. .. | 180,964 | 322,927 | 132,555 | 16,560 | 16,560 | 7,652 | 7,643 | 453 | 453 | 70,389 | 70,389 | 13,809 | 13,845 | 1,08,863 | 1,08,890 |
| Kurnool .. .. .. | 213,555 | 302,672 | 4,016,750 | 20,676 | 20,674 | 8,812 | 8,812 | 16,299 | 16,295 | 7,045 | 10,389 | 30,758 | 29,270 | 83,590 | 85,440 |
| Bellary .. .. .. | 98,458 | 423,008 | 93,206 | 7,278 | 7,278 | 8,236 | 7,636 | 1,716 | 1,716 | 27,863 | 27,863 | 47,870 | 73,082 | 92,963 | 1,17,575 |
| Anantapur .. .. . | 20,981 | 122,246 | 7,880 | 3,010 | 3,010 | 3,753 | 3,753 | 164 | 164 | 6,438 | 6,438 | 55,170 | 48,531 | 68,535 | 61,896 |
| Total .. | 1,078,313 | 2,425,998 | 15,905,473 | 1,08,811 | 1,07,603 | 55,510 | 54,904 | 69,664 | 69,683 | 1,23,939 | 1,27,255 | 1,58,319 | 1,79,167 | 5,16,243 | 5,38,612 |
| *Central Circle.* | | | | | | | | | | | | | | | |
| Cuddapah .. .. .. | 185,668 | 636,719 | 1,837,323 | 14,212 | 14,212 | 13,634 | 16,027 | 6,648 | 6,648 | 33,868 | 33,877 | 65,534 | 52,782 | 1,33,896 | 1,23,546 |
| Nellore .. .. .. | 209,066 | 174,543 | 1,917 | 16,708 | 16,624 | 6,681 | 6,681 | 148 | 148 | 25,719 | 25,719 | 18,448 | 43,769 | 67,704 | 92,941 |
| Chingleput .. .. | 99,934 | 124,420 | 26,700 | 9,657 | 9,657 | 9,538 | 8,788 | 169 | 169 | 7,458 | 7,458 | 11,012 | 10,563 | 37,834 | 36,635 |
| North Arcot .. .. | 22,937 | 351,987 | 2,235,276 | 5,091 | 5,019 | 29,490 | 35,043 | 28,835 | 36,544 | 21,647 | 21,647 | 32,874 | 43,213 | 1,17,937 | 1,41,466 |
| South do. .. .. | 28,088 | 374,382 | 50,600 | 3,533 | 3,533 | 23,850 | 27,399 | 2,811 | 2,811 | 30,541 | 30,541 | 14,460 | 24,145 | 75,195 | 88,429 |
| Salem .. .. .. | 223,659 | 420,547 | 7,757,485 | 38,000 | 38,000 | 15,052 | 16,502 | 44,285 | 44,285 | 50,943 | 50,943 | 67,805 | 46,920 | 2,16,085 | 1,96,650 |
| Trichinopoly .. .. | 18,785 | 1,227,814 | 529,050 | 1,276 | 1,276 | 20,598 | 24,914 | 7,697 | 3,591 | 7,707 | 7,730 | 4,551 | 8,057 | 41,829 | 45,568 |
| Tanjore .. .. .. | 23,143 | 549,277 | 4,019 | 1,479 | 1,479 | 11,985 | 11,985 | 875 | 875 | 555 | 555 | 4,388 | 4,396 | 19,282 | 19,290 |
| Total .. | 811,280 | 3,859,689 | 12,442,370 | 89,956 | 89,800 | 1,30,828 | 1,47,339 | 91,468 | 95,071 | 1,78,438 | 1,78,470 | 2,19,072 | 2,33,845 | 7,09,762 | 7,44,525 |
| *Southern Circle.* | | | | | | | | | | | | | | | |
| South Canara .. .. | 12,435 | 755,584 | 39,072 | 2,886 | 2,886 | 11,806 | 11,806 | 1,221 | 1,221 | 4,857 | 4,857 | 17,635 | 16,635 | 38,405 | 37,405 |
| North Malabar .. .. | 3,350 | 1,754 | 14,856 | 739 | 739 | 17 | 17 | 221 | 221 | 1,912 | 1,912 | 1,679 | 1,251 | 4,568 | 4,140 |
| South do. .. .. | 57,488 | 78,234 | 126,175 | 9,589 | 9,589 | 1,605 | 1,605 | 1,727 | 1,727 | 150 | 150 | 784 | 1,325 | 13,855 | 14,396 |
| Nilgiris .. .. .. | 4,788 | 14,080 | 236,753 | 1,333 | 1,333 | 925 | 925 | 2,802 | 2,802 | 8,131 | 8,131 | 1,425 | 1,425 | 14,616 | 14,616 |
| North Coimbatore .. | 12,889 | 268,334 | 898,000 | 1,165 | 1,165 | 20,972 | 19,068 | 5,581 | 5,581 | 35,914 | 35,914 | 7,631 | 7,631 | 71,263 | 69,379 |
| South do. .. .. | 18,410 | 659,367 | 261,000 | 9,632 | 9,632 | 10,216 | 10,216 | 4,049 | 4,049 | 5,975 | 5,975 | 2,887 | 4,245 | 32,759 | 34,117 |
| Madura .. .. .. | 18,768 | 107,863 | 27,222 | 13,292 | 13,292 | 5,629 | 4,581 | 2,082 | 2,082 | 5,835 | 5,835 | 39,297 | 43,393 | 66,135 | 69,183 |
| Tinnevelly .. .. | 25,911 | 1,252,523 | 462,016 | 8,405 | 7,656 | 33,385 | 34,739 | 466 | 414 | 8,343 | 7,855 | 29,210 | 24,631 | 85,759 | 75,295 |
| Total .. | 154,039 | 3,137,739 | 2,065,094 | 47,041 | 46,292 | 90,505 | 82,977 | 18,149 | 18,097 | 71,117 | 70,629 | 1,00,548 | 1,00,536 | 3,27,360 | 3,18,531 |
| Grand total .. | 2,043,632 | 9,423,426 | 30,412,937 | 2,45,808 | 2,43,695 | 2,76,843 | 2,85,220 | 1,79,281 | 1,82,851 | 3,73,494 | 3,76,354 | 4,77,939 | 5,13,548 | 15,53,365 | 16,01,668 |

| | |
|---|---|
| Add outstandings from previous year as per audited figures .. .. | 2,27,389 |
| Total .. | 17,80,754 |
| Deduct written off, &c. .. .. .. .. .. .. .. | 8,181 |
| Balance .. | 17,72,573 |
| Deduct amount realized as per Form No. 59 .. .. .. .. | 16,01,668 |
| Balance outstanding on 30th June 1897 .. .. .. .. .. | 1,70,905 |

## ANNUAL FORM No. 72-B (OLD CODE).

*Forest Department, Madras Presidency.*

**TIMBER and other Produce confiscated and sold during the year 1896–97.**

| District. | TIMBER. | | FIREWOOD. | | BAMBOOS. | | Minor produce in value. | Total amount of sales. | Amount actually realized. |
|---|---|---|---|---|---|---|---|---|---|
| | Quantity in cubic feet. | Amount of sales. | Quantity in cubic feet. | Amount of sales. | Number. | Amount of sales. | | | |
| *Northern Circle.* | | RS. | | RS. | | RS. | RS. | RS. | RS. |
| Ganjám .. .. | 1,367 | 171 | 336 | 12 | 1,370 | 7 | 1 | 191 | 191 |
| Vizagapatam .. | 223 | 22 | 378 | 22 | 880 | 7 | 556 | 607 | 607 |
| Gódávari .. .. | 43,863 | 3,801 | 13,366 | 218 | 3,941 | 37 | 1 | 4,057 | 4,057 |
| Kistna .. .. | 1,150 | 210 | 400 | 10 | 5 | 1 | 4 | 225 | 225 |
| Kurnool .. .. | 2,931 | 1,498 | 862 | 65 | 11,764 | 135 | 83 | 1,781 | 1,705 |
| Bellary .. .. | .. | .. | 360 | 39 | .. | .. | .. | 39 | 39 |
| Anantapur .. .. | 383 | 39 | 539 | 14 | .. | .. | 3 | 56 | 56 |
| Total .. | 49,917 | 5,741 | 16,241 | 380 | 17,960 | 187 | 648 | 6,956 | 6,880 |
| *Central Circle.* | | | | | | | | | |
| Cuddapah .. .. | 4,455 | 675 | 200 | 9 | 1,410 | 10 | 3 | 697 | 697 |
| Nellore .. .. | .. | .. | 2,950 | 248 | .. | .. | 4 | 252 | 252 |
| Chingleput .. .. | 649 | 63 | 1,094 | 140 | 610 | 2 | 6 | 211 | 211 |
| North Arcot .. | 304 | 34 | 531 | 53 | 134 | 3 | 8 | 98 | 98 |
| South do. .. | 403 | 50 | 2,282 | 143 | 80 | 3 | 28 | 224 | 224 |
| Salem .. .. | 987 | 140 | 933 | 55 | 1,755 | 43 | 25 | 263 | 263 |
| Trichinopoly .. | 202 | 12 | 227 | 10 | 111 | 3 | 22 | 47 | 47 |
| Tanjore .. .. | 24 | 2 | 22 | 1 | .. | .. | 1 | 4 | 4 |
| Total .. | 7,024 | 976 | 8,239 | 659 | 4,100 | 64 | 97 | 1,796 | 1,796 |
| *Southern Circle.* | | | | | | | | | |
| South Canara .. | 3,758 | 1,412 | 2,848 | 178 | 25 | 1 | 9 | 16,00 | 1,600 |
| North Malabar .. | 107 | 50 | .. | .. | .. | .. | .. | 50 | 50 |
| South do. .. | 17 | 3 | 40 | 1 | .. | .. | .. | 4 | 4 |
| Nilgiris .. .. | .. | .. | 33 | 1 | 286 | 3 | 5 | 9 | 9 |
| North Coimbatore .. | 464 | 218 | 563 | 14 | 1,823 | 31 | 4 | 267 | 267 |
| South do. .. | 2,130 | 221 | 5,167 | 25 | 40 | 1 | 209 | 456 | 456 |
| Madura .. .. | 293 | 165 | 515 | 61 | 6 | .. | 23 | 249 | 249 |
| Tinnevelly .. .. | 293 | 203 | 10,299 | 333 | 80 | 2 | 25 | 563 | 563 |
| Total .. | 7,062 | 2,272 | 19,465 | 613 | 2,260 | 38 | 275 | 3,198 | 3,198 |
| Grand Total .. | 64,003 | 8,989 | 43,945 | 1,652 | 24,320 | 289 | 1,020 | 11,950 | 11,874 |

| | |
|---|---|
| Add outstandings due from previous year .. .. .. .. .. .. .. .. | 5 |
| Total .. | 11,955 |
| Deduct amount realized during the year as per Form No. 59 .. .. .. .. .. | 11,874 |
| Balance outstanding on 30th June 1897 .. | 81 |

## ANNUAL FORM No. 59.

## SUMMARY of Revenue of the different districts, 1896-97 (Forest year).

| Budget heads. | Northern Circle, | | | | | | | | | Central Circle. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. | Direction. | Nellore | Cuddapah. | Chingleput. | North Arcot. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | | | | | |
| (a) Timber | .. | 5,449 | 95 | .. | 1,170 | 7,253 | 4,101 | .. | 18,068 | .. | 400 | 8,130 | .. | 308 |
| (b) Firewood and charcoal | .. | 9 | 1,353 | .. | 208 | 746 | 4,343 | .. | 6,659 | .. | 35,312 | 574 | 237 | 6,046 |
| (c) Bamboos | .. | .. | .. | .. | .. | 44 | 101 | .. | 145 | .. | .. | .. | .. | 3,093 |
| (d) Sandalwood | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1,742 |
| (e) Grass and other minor produce | .. | .. | 234 | .. | 1 | 120 | 141 | .. | 496 | .. | 731 | 21 | 1 | 75 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | | | | | |
| (a) Timber | .. | 10,275 | 5,375 | 44,431 | 16,560 | 20,674 | 7,278 | 3,010 | 1,07,603 | .. | 16,624 | 14,212 | 9,657 | 5,019 |
| (b) Firewood and charcoal | .. | 7,955 | 5,161 | 13,944 | 7,643 | 8,812 | 7,636 | 3,753 | 54,904 | .. | 6,681 | 16,027 | 8,788 | 35,043 |
| (c) Bamboos | .. | 4,531 | 8,951 | 37,573 | 453 | 16,295 | 1,716 | 164 | 69,683 | .. | 148 | 6,648 | 169 | 36,544 |
| (d) Grazing and fodder grass | .. | 5,295 | 2,762 | 4,119 | 70,389 | 10,389 | 27,803 | 6,438 | 1,27,255 | .. | 25,719 | 38,877 | 7,458 | 21,647 |
| (e) Other produce | .. | 4,650 | 6,609 | 3,180 | 13,845 | 29,270 | 73,082 | 48,531 | 1,79,167 | .. | 43,769 | 52,782 | 10,563 | 43,213 |
| III. Confiscated drift and waifwood | .. | 191 | 607 | 4,057 | 225 | 1,705 | 39 | 56 | 6,880 | .. | 252 | 697 | 211 | 98 |
| IV. Revenue from forests not managed by Government | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | | | | | | |
| (a) Fines and forfeitures | .. | 27 | .. | 33 | 2 | 77 | 129 | 2,318 | 2,586 | .. | 300 | 817 | 14 | 436 |
| (b) Refunds | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (c) Other sources | .. | 478 | 1,604 | 5,031 | 4,071 | 3,138 | 8,273 | 1,381 | 23,676 | 52 | 1,202 | 1,421 | 1,641 | 3,979 |
| Total, Receipts | .. | 38,860 | 32,751 | 1,12,368 | 1,14,567 | 98,523 | 1,34,702 | 65,651 | 5,97,422 | 52 | 1,31,188 | 1,35,206 | 38,739 | 1,57,243 |

| Budget heads. | Central Circle—*cont.* | | | | | Southern Circle. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| *Receipts.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | | | | | | |
| (a) Timber | 804 | 1,482 | .. | .. | 11,124 | .. | 10,895 | 1,098 | 37,405 | 449 | 4,923 | 18,593 | 68,249 | 6,081 | 1,47,693 |
| (b) Firewood and charcoal | 16,130 | 76,593 | 9,995 | 823 | 1,45,710 | .. | 20,803 | 40 | 5,925 | 3,971 | 2,843 | .. | 96 | 2,032 | 35,710 |
| (c) Bamboos | 2,507 | 776 | .. | .. | 6,376 | .. | .. | 2,301 | 652 | .. | 11 | .. | 601 | .. | 3,565 |
| (d) Sandalwood | 24 | 11,270 | .. | .. | 13,036 | .. | 2 | 2,682 | .. | .. | .. | .. | .. | .. | 2,684 |
| (e) Grass and other minor produce | .. | .. | 178 | .. | 1,006 | .. | 739 | 14,300 | 5,161 | 195 | 22 | 78 | 346 | 12,494 | 34,335 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | | | | | | | | | | | |
| (a) Timber | 3,533 | 38,000 | 1,276 | 1,479 | 89,800 | .. | 1,333 | 1,165 | 9,632 | 13,292 | 7,656 | 739 | 9,589 | 2,886 | 46,292 |
| (b) Firewood and charcoal | 27,399 | 16,502 | 24,914 | 11,985 | 1,47,339 | .. | 925 | 19,088 | 10,216 | 4,581 | 34,739 | 17 | 1,605 | 11,806 | 82,977 |
| (c) Bamboos | 2,811 | 44,285 | 3,591 | 875 | 95,071 | .. | 2,602 | 5,581 | 4,049 | 2,082 | 414 | 221 | 1,727 | 1,221 | 18,097 |
| (d) Grazing and fodder grass | 30,541 | 50,943 | 7,730 | 555 | 1,78,470 | .. | 8,131 | 35,914 | 5,975 | 5,835 | 7,855 | 1,912 | 150 | 4,857 | 70,629 |
| (e) Other produce | 24,145 | 46,920 | 8,057 | 4,396 | 2,33,845 | .. | 1,425 | 7,631 | 4,245 | 43,393 | 24,631 | 1,251 | 1,325 | 16,635 | 1,00,536 |
| III. Confiscated drift and waifwood | 224 | 263 | 47 | 4 | 1,796 | .. | 9 | 267 | 456 | 249 | 563 | 50 | 4 | 1,600 | 3,198 |
| IV. Revenue from forests not managed by Government | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Miscellaneous— | | | | | | | | | | | | | | | |
| (a) Fines and forfeitures | 222 | 450 | 523 | .. | 2,762 | .. | .. | 31 | 1,106 | 758 | 277 | 1 | .. | 177 | 2,350 |
| (b) Refunds | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (c) Other sources | 6,986 | 6,307 | 515 | 109 | 22,212 | 12 | 3,899 | 3,027 | 62,454 | 962 | 3,786 | 5,866 | 10,568 | 5,358 | 95,882 |
| Total, Receipts | 1,15,326 | 2,93,791 | 56,826 | 20,226 | 9,48,547 | 12 | 50,963 | 93,125 | 1,47,276 | 75,767 | 87,670 | 28,728 | 94,260 | 65,147 | 6,42,948 |

MADRAS,
13th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 59.

*Forest Department, Madras Presidency, Northern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1896-97.

| Budget heads. | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | |
| (*a*) Timber .. .. | .. | 3,875 | 24 | 21 | 1,194 | 4,747 | 2,163 | .. | 12,024 |
| (*b*) Firewood and charcoal .. .. | .. | .. | 1,623 | .. | 494 | 498 | 3,174 | .. | 5,789 |
| (*c*) Bamboos .. .. | .. | .. | .. | .. | .. | 36 | 92 | .. | 128 |
| (*d*) Sandalwood .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*e*) Grass and other minor produce .. | .. | .. | 53 | .. | 3 | 21 | 92 | .. | 169 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. .. .. | 3 | 6,484 | 4,903 | 10,972 | 6,522 | 14,307 | 4,334 | 1,644 | 49,169 |
| III. Confiscated drift and waif-wood .. .. .. | .. | 742 | 14 | 749 | .. | 120 | 16 | 20 | 1,661 |
| IV. Revenue from forests not managed by Government— | | | | | | | | | |
| V. Rent of leased forests and payments to share-holders in forests managed by Government .. .. | .. | .. | .. | .. | .. | .. | 10,000 | .. | 10,000 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*b*) Feed and keep of cattle .. .. | 1,086 | 520 | .. | 717 | .. | 658 | .. | .. | 2,981 |
| (*c*) Stores, tools and plant .. .. | 301 | 33 | 62 | 1,509<br>— 20 | 1,304 | 1,400 | 253 | 105 | 4,967<br>— 20 |
| VII. Communications and buildings— | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | 1,237 | 882 | 2,562 | 5,303 | 2,171 | 583 | .. | 12,738 |
| (*b*) Buildings .. .. | 5 | 1,407 | 1,547 | 3,596 | 2,797 | 5,476 | 154 | 1,817 | 16,799 |
| (*c*) Other works .. | .. | 71 | 70 | .. | 2,132 | 450 | .. | 6 | 2,729 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | |
| (*a*) Demarcation .. | .. | 1,358 | 1,001 | 1,115 | 5,577 | 3,114 | 1,683 | 576 | 14,424 |
| (*b*) Cost of forest settlement; compensation for land and rights .. .. | .. | 11 | 656 | 370 | 386 | 1,677 | — 4 | 380 | 3,476 |
| (*c*) Surveys— | | | | | | | | | |
| 1. Local surveys .. | .. | 1,130 | 1,171 | 631 | 1,351 | 1,783 | 1,244 | 621 | 7,931 |
| 2. Survey of India . | .. | .. | .. | .. | .. | 12,318 | .. | .. | 12,318 |
| (*d*) Working plans .. | .. | .. | .. | .. | 721 | .. | 68 | .. | 789 |
| (*e*) Sowing and planting. | 8 | 9,660 | 247 | 1,132 | 4,094 | 220 | 1,712 | 294 | 17,367 |
| (*f*) Protection from fire. | .. | 1,322 | 440 | 2,026 | 1,892 | 3,161 | 1,929 | 672 | 11,442 |
| (*g*) Other works .. | 1 | 73 | .. | .. | 11,379 | .. | 2,491 | 2,323 | 16,267 |
| IX. Miscellaneous— | | | | | | | | | |
| (*a*) Refunds .. .. | .. | 29,193 | 554 | 247 | 260 | 11 | 545 | 2,280 | 33,090 |
| (*b*) Law charges .. | .. | 180 | 143 | 3 | 7 | 15 | .. | 10 | 358 |
| (*c*) Other charges .. | 3 | 3 | 3,042 | 168 | 1,358 | 92 | 154 | 609 | 5,429 |
| Total, A.—Conservancy and Works. | 1,407 | 57,299 | 16,432 | 25,818<br>— 20 | 46,774 | 52,275 | 30,683 | 11,357 | 2,42,025 |

MADRAS,
14th August 1897.

(Signed) J. C. MITRA,
*for* Deputy Accountant-General.

ANNUAL FORM No. 59.

*Forest Department, Madras, Central Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1896–97.

| Budget heads. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 73 | 8,294 | .. | 145 | 560 | 1,420 | .. | .. | 10,492 |
| (*b*) Firewood and charcoal .. | .. | 16,334 | 1,443 | 74 | 4,727 | 6,196 | 50,540 | 2,730 | 39 | 82,083 |
| (*c*) Bamboos .. | .. | .. | .. | .. | 1,091 | 526 | 505 | .. | .. | 2,122 |
| (*d*) Sandalwood .. | .. | .. | .. | .. | 158 | 1 | 729 | .. | .. | 888 |
| (*e*) Grass and other minor produce .. | .. | 1,397 | 70 | .. | .. | .. | .. | 20 | .. | 1,487 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. | 3 | 716 | 10,190 | 2,093 | 281 | 2,697 | 12,058 | 2,104 | 523 | 30,665 |
| III. Confiscated, drift and waifwood .. .. | .. | 1 | 225 | 1 | .. | 3 | 53 | .. | .. | 283 |
| IV. Revenue from forests not managed by Government— | | | | | | | | | | |
| V. Rent of leased forests and payments to shareholders in forests managed by Government .. .. .. | .. | .. | .. | .. | .. | .. | 10 | .. | .. | 10 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | 56 | .. | .. | .. | .. | .. | .. | 56 |
| (*b*) Feed and keep of cattle .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*c*) Stores, tools and plant .. | 1,929 | .. | 75 | 96 | 136 | 8 | 349 | 40 | .. | 2,633 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | .. | 2,161 | 29 | 2,830 | 552 | 1,611 | 215 | .. | 7,398 |
| (*b*) Buildings .. | .. | 2,024 | 1,460 | 1,091 | 2,297 | 919 | 2,201 | 49 | 351 | 10,392 |
| (*c*) Other works .. | .. | .. | 5 | .. | 35 | 81 | 16 | .. | .. | 137 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 590 | 2,145 | 2,324 | 2,099 | 4,014 | 927 | 540 | .. | 12,639 |
| (*b*) Cost of forest settlement; compensation for land and rights .. | .. | 17 | .. | .. | 153 | 8 | 101 | .. | .. | 279 |
| (*c*) Surveys— | | | | | | | | | | |
| (1) Local Survey | 238 | 360 | 722 | 355 | 242 | 249 | 1,030 | 420 | .. | 3,616 |
| (2) Survey of India .. | .. | .. | .. | .. | 15,320 | .. | 30,000 | 25,000 | .. | 70,320 |
| (*d*) Working plans. | .. | .. | 63 | .. | .. | .. | .. | 115 | .. | 178 |
| (*e*) Sowing and planting .. | .. | 2 004 | 1,002 | 495 | 7,786 | 5,765 | .. | 1,344 | 1,263 | 19,659 |
| (*f*) Protection from fire .. .. | .. | 642 | 5,720 | 452 | 4,687 | 618 | 1,730 | 122 | .. | 13,971 |
| (*g*) Other works .. | .. | 1,208 | 2,543 | 3,045 | 7,352 | 4,939 | 7,692 | 3,934 | 381 | 32,094 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. .. | .. | 627 | 1,748 | 385 | 158 | 85 | 1,147 | 183 | 87 | 4,420 |
| (*b*) Law charges .. | .. | 14 | .. | .. | 125 | 4 | 87 | .. | .. | 230 |
| (*c*) Other charges .. | 23 | 17 | 159 | 7 | 22 | 212 | 36 | 40 | 2 | 518 |
| Total A.—Conservancy and Works .. | 2,193 | 26,024 | 38,081 | 10,447 | 49,644 | 27,437 | 1,12,242 | 36,856 | 3,646 | 3,06,570 |

MADRAS,
16th August 1897.

(Signed) J. C. MITRA,
*for* Deputy Accountant-General.

## ANNUAL FORM No. 59.

*Forest Department, Madras, Southern Circle.*

SUMMARY of Expenditure of the different districts for the forest year 1896–97.

| Budget heads. | Direction. | Nilgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|
| *A.—Conservancy and Works.* | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | | | | | | |
| (*a*) Timber .. | .. | 3,055 | 391 | 17,650 | 107 | 2,357 | 3,203 | 12,817 | 5,191 | 44,771 |
| (*b*) Firewood and charcoal .. | .. | 16,615 | 116 | 1,919 | 2,585 | 859 | 69 | 1 | 352 | 22,516 |
| (*c*) Bamboos .. | .. | .. | 1,879 | 211 | 209 | 6 | .. | 21 | .. | 2,326 |
| (*d*) Sandalwood .. | .. | 636 | 1,121 | .. | .. | .. | .. | .. | .. | 1,757 |
| (*e*) Grass and other minor produce. | .. | 210 | 5,658 | 3,728 | .. | .. | 279 | 221 | 3,892 | 13,988 |
| II. Timber and other produce removed from the forests by consumers or purchasers .. | 3 | 1,395 | 2,195 | 3,725 | 2,021 | 2,665 | 389 | 19 | 6,605 | 19,017 |
| III. Confiscated, drift and waifwood .. .. | .. | .. | 77 | 66 | 305 | .. | .. | .. | 99 | 547 |
| IV. Revenue from forests not managed by Government .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| V. Rent of leased forests and payments to shareholders in forests managed by Government .. .. .. | .. | 4,500 | .. | 2,500 | .. | .. | .. | 434 | .. | 7,434 |
| VI. Live-stock, stores, tools and plant— | | | | | | | | | | |
| (*a*) Purchase of cattle .. | .. | .. | .. | 429 | .. | .. | 3,830 | 1,127 | .. | 5,386 |
| (*b*) Feed and keep of cattle .. | .. | 3,391 | .. | 4,677 | .. | .. | 7,562 | 9,301 | 458 | 25,389 |
| (*c*) Stores, tools and plant .. | 873 | 453 | 347 | 323 | 91 | 755 | 216 | 471 | 707 | 4,236 |
| VII. Communications and buildings— | | | | | | | | | | |
| (*a*) Roads and bridges .. | .. | 1,348 | 12,285 | 4,535 | 761 | 6,039 | 1,585 | 546 | 33 | 27,132 |
| (*b*) Buildings .. | .. | 2,210 | 3,672 | 3,835 | 1,339 | 4,108 | 775 | 4,893 | 319 | 21,151 |
| (*c*) Other works .. | .. | 88 | 29 | 662 | 74 | .. | 407 | 85 | 12 | 1,357 |
| VIII. Demarcation, improvement and extension of forests— | | | | | | | | | | |
| (*a*) Demarcation .. | .. | 2,547 | 4,142 | 639 | 3 | 335 | 951 | 203 | 1,241 | 10,061 |
| (*b*) Cost of forest settlement; compensation for land and rights .. | .. | 100 | 629 | .. | 9 | 3 | .. | 4,822 | .. | 5,563 |
| (*c*) Surveys— | | | | | | | | | | |
| (1) Local surveys. | 246 | 420 | 508 | 362 | 843 | 896 | 509 | 328 | 3,887 | 7,999 |
| (2) Survey of India .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (*d*) Working plans. | .. | .. | .. | 51 | .. | 626 | .. | .. | .. | 677 |
| (*e*) Sowing and planting .. | .. | 1,864 | 103 | 576 | 441 | 380 | 1,545 | 8,380 | 62 | 13,351 |
| (*f*) Protection from fire .. .. | .. | 1,822 | 519 | 2,275 | 3,562 | 1,326 | 1,091 | 2,246 | 1,089 | 13,930 |
| (*g*) Other works .. | .. | 619 | 5,861 | 1,502 | 4,208 | 4,897 | 1,043 | 2,229 | 2,167 | 22,526 |
| IX. Miscellaneous— | | | | | | | | | | |
| (*a*) Refunds .. | .. | 33 | 533 | 482 | 267 | 1,002 | 539 | .. | 287 | 2,963 |
| (*b*) Law charges .. | .. | .. | .. | 7 | 1 | .. | .. | 149 | 5 | 162 |
| (*c*) Other charges .. | .. | 3,009 | 347 | 234 | 1,313 | 15 | 64 | 81 | 303 | 5,366 |
| Total A.—Conservancy and works .. | 1,122 | 44,315 | 40,412 | 50,388 | 18,139 | 26,269 | 23,877 | 48,374 | 26,709 | 2,79,605 |

MADRAS,
17th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 59.

### SUMMARY of Expenditure of the different districts for the forest year 1896–97.

| Budget heads. | Northern Circle. | | | | | | | | | Central Circle. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Direction. | Ganjám. | Vizagapatam. | Gódávari. | Kistna. | Kurnool. | Bellary. | Anantapur. | Total. | Direction. | Nellore. | Cuddapah. | Chingleput. | North Arcot. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| *B.—"Establishments."* | | | | | | | | | | | | | | |
| Brought forward, Total A. "Conservancy and Works" .. | Rs. 1,407 | Rs. 57,299 | Rs. 16,432 | Rs. 25,798 | Rs. 46,774 | Rs. 52,275 | Rs. 30,683 | Rs. 11,357 | Rs. 2,42,025 | Rs. 2,193 | Rs. 26,024 | Rs. 38,081 | Rs. 10,447 | Rs. 49,644 |
| I. Salaries— | | | | | | | | | | | | | | |
| (a) Conservators .. .. .. .. .. .. | 16,200 | .. | .. | .. | .. | .. | .. | .. | 16,200 | 19,200 | .. | .. | .. | .. |
| (b) Superior officers .. .. .. .. .. | 8,992 | 8,987 | 6,795 | 9,967 | 12,885 | 13,742 | 4,800 | 9,815 | 75,983 | 14,537 | 7,425 | 18,552 | 10,935 | 12,102 |
| (c) Subordinate forest and depôt establishments .. | 371 | 4,681 | 3,618 | 7,290 | 8,293 | 6,582 | 5,765 | 5,003 | 41,603 | 32 | 6,903 | 11,313 | 2,972 | 10,343 |
| (d) Office establishments .. .. .. .. .. | 9,874 | 2,014 | 1,688 | 3,316 | 3,587 | 3,623 | 2,417 | 1,972 | 28,491 | 12,060 | 2,773 | 4,030 | 1,749 | 3,566 |
| (e) Exchange compensation allowances .. .. .. | 2,856 | 1,058 | 810 | 821 | 1,343 | 1,219 | 498 | 85 | 8,690 | 2,298 | 250 | 1,890 | 1,269 | 950 |
| II. Travelling allowances— | | | | | | | | | | | | | | |
| (a) Conservators .. .. .. .. .. .. | 2,646 | .. | .. | .. | .. | .. | .. | .. | 2,646 | 2,452 | .. | .. | .. | .. |
| (b) Superior officers .. .. .. .. .. | 2,787 | 1,990 | 940 | 3,043 | 2,427 | 3,111 | 751 | 1,100 | 16,149 | 6,402 | 1,446 | 3,376 | 642 | 1,711 |
| (c) Subordinate forest and depôt establishments .. | 116 | 1,565 | 1,123 | 2,222 | 1,892 | 1,705 | 1,739 | 1,201 | 11,563 | 6 | 1,515 | 2,221 | 841 | 2,736 |
| (d) Office establishments .. .. .. .. .. | 1,845 | 346 | 219 | 816 | 1,315 | 814 | 246 | 485 | 6,086 | 2,874 | 338 | 793 | 177 | 403 |
| III. Contingencies— | | | | | | | | | | | | | | |
| (a) Stationery .. .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (b) Carriage of tents and records .. .. .. .. | 587 | 116 | 244 | 520 | 1,265 | 443 | 356 | 109 | 3,640 | 1,020 | 183 | 201 | 111 | 217 |
| (c) Rents, rates and taxes .. .. .. .. .. | 563 | 39 | 244 | 113 | 5 | 82 | 93 | 99 | 1,238 | .. | .. | 308 | 9 | 47 |
| (e) Official postage and service telegrams .. .. | 547 | 405 | 397 | 1,124 | 1,587 | 626 | 552 | 477 | 5,715 | 702 | 328 | 966 | 390 | 1,145 |
| (f) Sundries .. .. .. .. .. .. | 782 | 146 | 835 | 2,176 | 542 | 208 | 363 | 199 | 5,251 | 668 | 332 | 311 | 269 | 277 |
| Total B.—"Establishments" .. | 48,166 | 21,347 | 16,913 | 31,408 | 35,141 | 32,155 | 17,580 | 20,545 | 2,23,255 | 62,251 | 21,493 | 43,961 | 19,364 | 33,497 |
| Grand Total of Expenditure .. | 49,573 | 78,646 | 33,345 | 57,206 | 81,915 | 84,430 | 48,263 | 31,902 | 4,65,280 | 64,444 | 47,517 | 82,042 | 29,811 | 83,141 |

| Budget heads. | Central Circle—*cont.* | | | | | Southern Circle. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | South Arcot. | Salem. | Trichinopoly. | Tanjore. | Total. | Direction. | Nílgiris. | North Coimbatore. | South Coimbatore. | Madura. | Tinnevelly. | North Malabar. | South Malabar. | South Canara. | Total. |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| *B.—"Establishments."* | | | | | | | | | | | | | | | |
| Brought forward, Total A. "Conservancy and Works" .. | Rs. 27,437 | Rs. 1,12,242 | Rs. 36,856 | Rs. 3,646 | Rs. 3,06,570 | Rs. 1,122 | Rs. 44,315 | Rs. 40,412 | Rs. 50,388 | Rs. 18,139 | Rs. 26,269 | Rs. 23,877 | Rs. 48,374 | Rs. 26,709 | Rs. 2,79,605 |
| I. Salaries— | | | | | | | | | | | | | | | |
| (a) Conservators .. .. .. .. .. .. | .. | .. | .. | .. | 19,200 | 13,200 | .. | .. | .. | .. | .. | .. | .. | .. | 13,200 |
| (b) Superior officers .. .. .. .. .. | 9,348 | 17,271 | 8,932 | .. | 99,102 | 10,700 | 15,825 | 10,650 | 11,113 | 9,163 | 9,994 | 6,685 | 6,904 | 8,389 | 89,423 |
| (c) Subordinate forest and depôt establishments .. .. | 10,480 | 11,004 | 4,905 | 1,279 | 59,231 | 774 | 7,943 | 6,888 | 9,331 | 6,604 | 6,939 | 4,603 | 5,986 | 7,008 | 56,076 |
| (d) Office establishments .. .. .. .. .. | 2,730 | 3,607 | 1,993 | 808 | 33,316 | 8,441 | 3,129 | 3,905 | 3,389 | 2,996 | 3,129 | 2,969 | 2,299 | 3,352 | 33,609 |
| (e) Exchange compensation allowances .. .. .. | 1,121 | 783 | 1,033 | .. | 9,594 | 2,764 | 1,573 | 1,048 | 1,293 | 1,079 | 1,082 | 788 | .. | 1,773 | 11,350 |
| II. Travelling allowances— | | | | | | | | | | | | | | | |
| (a) Conservators .. .. .. .. .. .. | .. | .. | .. | .. | 2,452 | 2,931 | .. | .. | .. | .. | .. | .. | .. | .. | 2,931 |
| (b) Superior officers .. .. .. .. .. | 684 | 4,144 | 793 | 231 | 19,429 | 3,624 | 853 | 2,123 | 1,651 | 1,306 | 1,845 | 1,769 | 901 | 872 | 14,944 |
| (c) Subordinate forest and depôt establishments .. .. | 2,547 | 3,533 | 1,887 | 317 | 15,603 | 315 | 1,952 | 2,174 | 3,059 | 1,862 | 1,885 | 1,322 | 2,187 | 2,314 | 17,070 |
| (d) Office establishments .. .. .. .. .. | 213 | 554 | 323 | 52 | 5,727 | 1,278 | 155 | 461 | 661 | 578 | 591 | 501 | 273 | 445 | 4,943 |
| III. Contingencies— | | | | | | | | | | | | | | | |
| (a) Stationery .. .. .. .. .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| (b) Carriage of tents and records .. .. .. .. | 121 | 537 | 108 | 36 | 2,534 | 442 | 27 | 477 | 251 | 1,042 | 276 | 94 | 52 | 559 | 3,220 |
| (c) Rents, rates and taxes .. .. .. .. .. | 624 | 30 | 54 | .. | 1,072 | 20 | 251 | 95 | 104 | 18 | 74 | .. | 75 | 88 | 725 |
| (e) Official postage and Service telegrams .. .. | 845 | 1,847 | 401 | 202 | 6,826 | 631 | 394 | 746 | 491 | 782 | 657 | 261 | 237 | 939 | 5,138 |
| (f) Sundries .. .. .. .. .. .. | 855 | 1,079 | 268 | 67 | 4,126 | 899 | 1,078 | 761 | 568 | 414 | 477 | 680 | 342 | 367 | 5,581 |
| Total B.—"Establishments" .. | 29,568 | 44,389 | 20,697 | 2,992 | 2,78,212 | 46,019 | 33,175 | 29,328 | 31,911 | 25,844 | 26,899 | 19,672 | 19,256 | 26,106 | 2,68,210 |
| Grand Total of Expenditure .. | 57,005 | 1,56,631 | 57,553 | 6,638 | 5,84,782 | 47,141 | 77,490 | 69,740 | 82,299 | 43,983 | 53,168 | 43,549 | 67,630 | 52,815 | 5,37,815 |

MADRAS,
17th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

SUMMARY of Receipts and Expenditure during 1896-97 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's statement.

| Budget heads. | Northern Circle. | Central Circle. | Southern Circle. | Grand Total, Presidency. | |
|---|---|---|---|---|---|
| | | | | 1896-97. | 1895-96. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| **RECEIPTS.** | RS. | RS. | RS. | RS. | RS. |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | |
| (a) Timber | 18,068 | 11,124 | 1,47,693 | 1,76,885 | 1,62,337 |
| (b) Firewood and charcoal | 6,659 | 1,45,710 | 35,710 | 1,88,079 | 1,62,292 |
| (c) Bamboos | 145 | 6,376 | 3,565 | 10,086 | 3,025 |
| (d) Sandalwood | .. | 13,036 | 2,684 | 15,720 | 21,418 |
| (e) Grass and other minor produce | 496 | 1,006 | 33,335 | 34,837 | 18,946 |
| Total, I | 25,368 | 1,77,252 | 2,22,987 | 4,25,607 | 3,68,018 |
| II. Timber and other produce removed from the forests by consumers or purchasers— | | | | | |
| (a) Timber | 1,07,603 | 89,800 | 46,292 | 2,43,695 | 2,40,067 |
| (b) Firewood and charcoal | 54,904 | 1,47,339 | 82,977 | 2,85,220 | 3,15,817 |
| (c) Bamboos | 69,683 | 95,071 | 18,097 | 1,82,851 | 1,99,376 |
| (d) Grazing and fodder grass | 1,27,255 | 1,78,470 | 70,629 | 3,76,354 | 3,40,496 |
| (e) Other produce | 1,79,167 | 2,33,845 | 1,00,536 | 5,13,548 | 6,18,107 |
| Total, II | 5,38,612 | 7,44,525 | 3,18,531 | 16,01,668 | 17,13,863 |
| III. Confiscated drift and waifwood | 6,880 | 1,796 | 3,198 | 11,874 | 10,073 |
| V. Miscellaneous— | | | | | |
| (a) Fines and forfeitures | 2,586 | 2,762 | 2,350 | 7,698 | 2,184 |
| (b) Refunds | .. | .. | .. | .. | .. |
| (c) Other sources | 23,976 | 22,212 | 95,882 | 1,42,070 | 73,492 |
| Total, V | 26,562 | 24,974 | 98,232 | 1,49,768 | 75,676 |
| Grand Total, Receipts | 5,97,422 | 9,48,547 | 6,42,948 | 21,88,917 | 21,67,630 |
| **EXPENDITURE.** | | | | | |
| *A.—Conservancy and Works.* | | | | | |
| I. Timber and other produce removed from the forests by Government Agency— | | | | | |
| (a) Timber | 12,024 | 10,492 | 44,771 | 67,287 | 74,206 |
| (b) Firewood and charcoal | 5,789 | 82,083 | 22,516 | 1,10,388 | 1,02,065 |
| (c) Bamboos | 128 | 2,122 | 2,326 | 4,576 | 1,389 |
| (d) Sandalwood | .. | 888 | 1,757 | 2,645 | 2,865 |
| (e) Grass and other minor produce | 169 | 1,487 | 13,988 | 15,644 | 8,217 |
| Total, A-I | 18,110 | 97,072 | 85,358 | 2,00,540 | 1,88,732 |
| II. Timber and other produce removed from the forests by consumers or purchasers | 49,169 | 30,665 | 19,017 | 98,851 | 89,941 |
| III. Confiscated drift and waif wood | 1,661 | 283 | 547 | 2,491 | 2,570 |
| V. Rent of leased forests and payments to shareholders in forests managed by Government | 10,000 | 10 | 7,434 | 17,444 | 21,088 |
| VI. Live stock, stores, tools and plant— | | | | | |
| (a) Purchase of cattle | .. | 56 | 5,386 | 5,442 | 3,067 |
| (b) Feed and keep of cattle | 2,981 | .. | 25,389 | 28,370 | 23,872 |
| (c) Stores, tools and plant | 4,947 | 2,633 | 4,236 | 11,816 | 5,920 |
| Total, A-VI | 7,928 | 2,689 | 35,011 | 45,628 | 32,859 |
| VII. Communications and buildings— | | | | | |
| (a) Roads and bridges | 12,738 | 7,398 | 27,132 | 47,268 | 28,313 |
| (b) Buildings | 16,799 | 10,392 | 21,151 | 48,342 | 41,108 |
| (c) Other works | 2,729 | 137 | 1,357 | 4,223 | 2,662 |
| Total, A-VII | 32,266 | 17,927 | 49,640 | 99,833 | 72,083 |
| VIII. Demarcation improvement and extension of forests— | | | | | |
| (a) Demarcation | 14,424 | 12,639 | 10,061 | 37,124 | 38,143 |
| (b) Cost of forest settlement, compensation for land and rights | 3,476 | 279 | 5,563 | 9,318 | 7,781 |
| (c) Surveys (1) Local surveys | 7,931 | 3,616 | 7,999 | 19,546 | 19,048 |
| (c) Surveys (2) Survey of India | 12,318 | 70,320 | .. | 82,638 | 54,837 |
| (d) Working plans | 789 | 178 | 677 | 1,644 | 891 |
| (e) Sowing and planting | 17,367 | 19,659 | 13,851 | 50,377 | 46,602 |
| (f) Protection from fire | 11,442 | 13,971 | 13,930 | 39,343 | 42,243 |
| (g) Other works | 16,267 | 32,094 | 22,526 | 70,887 | 66,745 |
| Total, A-VIII | 84,014 | 1,52,756 | 74,107 | 3,10,877 | 2,76,290 |

Summary of Receipts and Expenditure during 1896-97 for each Circle and for the Presidency prepared in the Board's office from the Accountant-General's statement—*cont.*

| Budget heads. | Northern Circle. | Central Circle. | Southern Circle. | Grand Total, Presidency. | |
|---|---|---|---|---|---|
| | | | | 1896-97. | 1895-96. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| EXPENDITURE—*cont.* | | | | | |
| *A.—Conservancy and Works*—cont. | Rs. | Rs. | Rs. | Rs. | Rs. |
| IX. Miscellaneous— | | | | | |
| (*a*) Refunds .. .. .. .. .. | 33,090 | 4,420 | 2,963 | 40,473 | 19,805 |
| (*b*) Law charges .. .. .. .. .. | 358 | 230 | 162 | 750 | 1,946 |
| (*c*) Other charges .. .. .. .. .. | 5,429 | 518 | 5,366 | 11,313 | 7,511 |
| Total, A-IX .. | 38,877 | 5,168 | 8,491 | 52,536 | 29,262 |
| Total, A.—Conservancy and Works .. | 2,42,025 | 3,06,570 | 2,79,605 | 8,28,200 | 7,12,825 |
| *B.—Establishments.* | | | | | |
| I. Salaries— | | | | | |
| (*a*) Conservators .. .. .. .. .. | 16,200 | 19,200 | 13,200 | 48,600 | 48,624 |
| (*b*) Superior officers .. .. .. .. | 75,983 | 99,102 | 89,423 | 2,64,508 | 2,61,362 |
| (*c*) Subordinate forest and depôt establishments. | 41,603 | 59,231 | 56,076 | 1,56,910 | 1,56,986 |
| (*d*) Office establishments .. .. .. | 28,491 | 33,316 | 33,609 | 95,416 | 91,217 |
| (*e*) Exchange compensation allowances .. | 8,690 | 9,594 | 11,350 | 29,634 | 37,885 |
| Total, B-I .. | 1,70,967 | 2,20,443 | 2,03,658 | 5,95,068 | 5,96,074 |
| II. Travelling allowances— | | | | | |
| (*a*) Conservators .. .. .. .. .. | 2,646 | 2,452 | 2,931 | 8,029 | 9,699 |
| (*b*) Superior officers .. .. .. .. | 16,149 | 19,429 | 14,944 | 50,522 | 49,873 |
| (*c*) Subordinate forest and depôt establishments. | 11,563 | 15,603 | 17,070 | 44,236 | 44,711 |
| (*d*) Office establishments .. .. .. | 6,086 | 5,727 | 4,943 | 16,756 | 15,223 |
| Total, B-II .. | 36,444 | 43,211 | 39,888 | 1,19,543 | 1,19,506 |
| III. Contingencies— | | | | | |
| (*a*) Stationery .. .. .. .. .. | .. | .. | .. | .. | .. |
| (*b*) Carriage of tents and records .. .. | 3,640 | 2,534 | 3,220 | 9,394 | 7,715 |
| (*c*) Rents, rates and taxes .. .. .. | 1,238 | 1,072 | 725 | 3,035 | 2,843 |
| (*e*) Official postage and service telegrams .. | 5,715 | 6,826 | 5,138 | 17,679 | 16,409 |
| (*f*) Sundries .. .. .. .. .. | 5,251 | 4,126 | 5,581 | 14,958 | 13,616 |
| Total, B-III .. | 15,844 | 14,558 | 14,664 | 45,066 | 40,583 |
| Total, B.—Establishments .. | 2,23,255 | 2,78,212 | 2,58,210 | 7,59,677 | 7,56,163 |
| Grand Total of Expenditure .. | 4,65,280 | 5,84,782 | 5,37,815 | 15,87,877 | 14,68,988 |
| Surplus .. | 1,32,142 | 3,63,765 | 1,05,133 | 6,01,040 | 6,98,642 |
| Deficit .. | .. | .. | .. | .. | .. |
| Total .. | 5,97,422 | 9,48,547 | 6,42,948 | 21,88,917 | 21,67,630 |

## ANNUAL FORM No. 60.

*Forest Department, Madras, Northern Circle.*

OUTSTANDINGS and Liabilities on account of contractors and disbursers for the forest year 1896–97.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Northern Circle .. .. .. .. | .. | 5,632 10 10 | 5,632 10 10 | 3 5 4 | 5,662 10 9 | 5,666 0 1 | 33 5 3 | .. |
| Forest Settlement-officer, Ganjám, &c. .. .. | .. | 831 15 8 | 831 15 8 | 24 6 1 | 849 3 9 | 873 9 10 | 41 10 2 | .. |
| Do. Nellore, &c. .. .. | .. | 625 9 11 | 625 9 11 | 21 8 10 | 630 1 10 | 651 10 8 | 26 0 9 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | .. | .. | 78 10 8 | .. | 78 10 8 | 78 10 8 | .. |
| Ganjám .. .. .. .. .. .. | .. | 37,216 7 6 | 37,216 7 6 | 1,376 12 2 | 36,446 11 2 | 37,823 7 4 | 606 15 10 | .. |
| Vizagapatam .. .. .. .. .. .. | .. | 19,402 13 9 | 19,402 13 9 | 3,761 8 11 | 16,027 4 10 | 19,788 13 9 | 386 0 0 | .. |
| Gódávari .. .. .. .. .. .. | .. | 49,574 13 7 | 49,574 13 7 | 882 2 5 | 51,477 0 3 | 52,359 2 8 | 2,784 5 1 | .. |
| Kistna .. .. .. .. .. .. | .. | 66,642 4 10 | 66,642 4 10 | 3,626 9 3 | 65,738 2 7 | 69,364 11 10 | 2,722 7 0 | .. |
| Kurnool .. .. .. .. .. .. | .. | 56,862 15 11 | 56,862 15 11 | 1,615 2 10 | 57,231 6 2 | 58,846 9 0 | 1,983 9 1 | .. |
| Bellary .. .. .. .. .. .. | .. | 37,947 5 8 | 37,947 5 8 | 1,394 9 7 | 37,453 13 7 | 38,848 7 2 | 901 1 6 | .. |
| Anantapur .. .. .. .. .. .. | .. | 16,549 6 9 | 16,549 6 9 | 710 10 3 | 16,261 5 4 | 16,971 15 7 | 422 8 10 | .. |
| Total .. | .. | 2,91,286 8 5 | 2,91,286 8 5 | * 13,495 6 4 | 2,87,777 12 3 | 3,01,273 2 7 | 9,986 10 2 | .. |

* The difference between this and that given in the previous year's report is Rs. 19–12–6 which is explained below :—

| | Rs. A. P. |
|---|---|
| Amount transferred to Southern Circle against Forest school, Dehra Dun .. .. .. | 41 5 4 |
| Do. from Central Circle against Forest Settlement-officer, Nellore, &c. .. | 21 8 10 |
| Hence difference .. | 19 12 6 |

MADRAS,
27th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## Annual Form No. 60.

*Forest Department, Madras, Central Circle.*

Outstandings and Liabilities on account of contractors and disbursers for the forest year 1896–97.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Conservator, Central Circle .. .. .. .. | .. | 1,049 5 5 | 1,049 5 5 | 51 6 10 | 1,060 6 4 | 1,111 13 2 | 62 7 9 | .. |
| Forest Settlement-officer, Trichinopoly, &c. .. | .. | 2,839 6 0 | 2,839 6 0 | .. | 2,848 9 1 | 2,848 9 1 | 9 3 1 | .. |
| Do. North Arcot, &c. .. .. | .. | 26 4 10 | 26 4 10 | 2 13 6 | 23 7 10 | 26 5 4 | 0 0 6 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | 60 0 0 | 60 0 0 | 60 0 0 | .. | 60 0 0 | .. | .. |
| Nellore .. .. .. .. .. .. | .. | 34,550 4 0 | 34,550 4 0 | 956 15 2 | 35,026 12 6 | 35,983 11 8 | 1,433 7 8 | .. |
| Cuddapah .. .. .. .. .. .. | .. | 71,424 9 11 | 71,424 9 11 | 2,121 13 3 | 71,612 2 5 | 73,733 15 8 | 2,309 5 9 | .. |
| Chingleput .. .. .. .. .. .. | .. | 29,858 7 7 | 29,858 7 7 | 858 14 5 | 29,611 7 9 | 30,470 6 2 | 611 14 | .. |
| North Arcot .. .. .. .. .. .. | .. | 60,135 7 2 | 60,135 7 2 | 1,370 5 3 | 62,622 5 1 | 63,992 10 4 | 3,857 3 2 | .. |
| South do. .. .. .. .. .. .. | .. | 56,885 9 2 | 56,885 9 2 | 2,694 13 7 | 57,112 7 2 | 59,807 4 9 | 2,921 11 7 | .. |
| Salem .. .. .. .. .. .. | .. | 1,29,012 4 3 | 1,29,012 4 3 | 4,856 13 2 | 1,30,382 3 3 | 1,35,239 0 5 | 6,226 12 2 | .. |
| Trichinopoly .. .. .. .. .. .. | .. | 22,796 0 11 | 22,796 0 11 | 312 7 4 | 22,944 15 10 | 23,257 7 2 | 461 6 3 | .. |
| Tanjore .. .. .. .. .. .. | .. | 7,823 0 8 | 7,823 0 8 | 417 8 2 | 7,905 11 9 | 8,323 3 11 | 500 3 3 | .. |
| Total .. | .. | 4,16,460 11 11 | 4,16,460 11 11 | 13,703 14 8 | 4,21,150 9 0 | 4,34,854 7 8 | 18,393 11 9 | .. |

Madras,
27th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 60.

*Forest Department, Madras, Southern Circle.*

OUTSTANDINGS and Liabilities on account of contractors and disbursers for the forest year 1896-97.

| District. | Department Debtor. | | | Department Creditor. | | | Balance due | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To department (outstandings). | By department (liabilities). |
| | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. |
| Conservator, Southern Circle .. .. .. .. | .. | 12,846 0 11 | 12,846 0 11 | 24 12 7 | 12,861 9 5 | 12,886 6 0 | 40 5 1 | .. |
| Forest Settlement-officer, Malabar, &c. .. .. | .. | 536 10 4 | 536 10 4 | .. | 528 6 7 | 528 6 7 | .. | 8 3 9 |
| Do. Trichinopoly, &c. .. .. | .. | 2,839 6 0 | 2,839 6 0 | .. | 2,848 9 2 | 2,848 9 2 | 9 3 2 | .. |
| Forest School, Dehra Dun .. .. .. .. | .. | .. | .. | * 78 5 4 | 60 0 0 | 138 5 4 | 138 5 4 | .. |
| Nilgiris .. .. .. .. .. .. .. | .. | 55,679 13 4 | 55,679 13 4 | 639 5 5 | 56,126 9 0 | 56,765 14 5 | 1,086 1 1 | .. |
| North Coimbatore .. .. .. .. .. | .. | 70,297 7 3 | 70,297 7 3 | 846 5 11 | 70,989 6 4 | 71,835 12 3 | 1,538 5 0 | .. |
| South do. .. .. .. .. .. | .. | 46,038 13 3 | 46,038 13 3 | 2,709 7 5 | 44,926 15 10 | 47,636 7 3 | 1,597 10 0 | .. |
| Madura .. .. .. .. .. .. .. | .. | 32,915 9 6 | 32,915 9 6 | 2,559 14 5 | 31,472 5 8 | 34,032 4 1 | 1,116 10 7 | .. |
| Tinnevelly .. .. .. .. .. .. | .. | 40,884 5 9 | 40,884 5 9 | 4,247 7 3 | 41,682 15 5 | 45,930 6 8 | 5,046 0 11 | .. |
| North Malabar .. .. .. .. .. .. | .. | 28,537 10 7 | 28,537 10 7 | 1,994 7 5 | 27,702 5 4 | 29,696 12 9 | 1,159 2 2 | .. |
| South do. .. .. .. .. .. .. | .. | 53,340 9 7 | 53,340 9 7 | 517 15 6 | 54,200 15 4 | 54,718 14 10 | 1,378 5 3 | .. |
| South Canara .. .. .. .. .. .. | .. | 31,521 8 6 | 31,521 8 6 | 2,739 11 0 | 30,243 4 2 | 32,982 15 2 | 1,461 6 8 | .. |
| Total .. | .. | 3,75,437 15 0 | 3,75,437 15 0 | * 16,357 12 3 | 3,73,643 6 3 | 3,90,001 2 6 | 14,571 7 3 | 8 3 9 |

* This is inclusive of Rs. 41-5-4 transferred from Northern Circle (*vide* annual form No. 60 of that circle).

MADRAS,
30th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 61.

*Forest Department, Madras Presidency, Northern Circle*

REVENUE received and Outstandings on account of revenue during the forest year 1896–97.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. |
|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. |
| Direction .. .. | Timber and other forest produce. | .. | .. | .. | .. | .. |
| Ganjám .. .. | Do. do. .. | 27 8 0 | 38,833 1 5 | 38,860 9 5 | 38,860 7 2 | 0 2 3 |
| Vizagapatam .. .. | Do. do. .. | 4,252 2 0 | 30,099 13 8 | 34,351 15 8 | 32,750 15 6 | 1,601 0 2 |
| Gódávari .. .. | Do. do. .. | .. | 1,12,527 5 0 | 1,12,527 5 0 | 1,12,368 3 0 | 159 2 0 |
| Kistna .. .. .. | Do. do. .. | 36 5 1 | 1,14,929 0 7 | 1,14,965 5 8 | 1,14,567 0 8 | 398 5 0 |
| Kurnool .. .. | Do. do. .. | 4,934 6 8 | 96,767 8 6 | 1,01,701 15 2 | 98,522 6 2 | 3,179 9 0 |
| Bellary .. .. .. | Do. do. .. | 60,493 14 5 | 1,10,090 4 7 | 1,70,584 3 0 | 1,34,702 4 0 | 35,881 15 0 |
| Anantapur .. .. | Do. do. .. | 178 0 0 | 72,290 1 10 | 72,368 1 10 | 65,651 3 1 | 6,716 14 9 |
| | Total .. | 69,822 4 2 | 5,75,537 3 7 | 6,45,359 7 9 | 5,97,422 7 7 | 47,937 0 2 |

MADRAS,
27th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 61.

*Forest Department, Madras Presidency, Central Circle.*

REVENUE received and Outstandings on account of revenue during the forest year 1896-97.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. |
|---|---|---|---|---|---|---|
| | | Rt. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| Direction .. .. | Timber and other forest produce. | .. | 52 3 6 | 52 3 6 | 52 3 6 | .. |
| Nellore .. .. .. | Do. do. .. | 32,125 0 0 | 1,14,088 10 0 | 1,46,213 10 0 | 1,31,138 5 2 | 15,075 4 10 |
| Cuddapah .. .. | Do. do. .. | 4,886 14 4 | 1,49,712 1 9 | 1,54,599 0 1 | 1,35,205 11 4 | 19,393 4 9 |
| Chingleput .. .. | Do. do. .. | 1,460 8 0 | 40,055 1 10 | 41,515 9 10 | 38,738 14 6 | 2,776 11 4 |
| North Arcot .. .. | Do. do. .. | 59,542 15 4 | 1,33,244 13 10 | 1,92,787 13 2 | 1,57,243 2 4 | 35,544 10 10 |
| South Arcot .. .. | Do. do. .. | 16,588 15 6 | 1,00,938 11 11 | 1,17,527 11 5 | 1,15,325 12 2 | 2,201 15 3 |
| Salem .. .. .. | Do. do. .. | 3,170 7 8 | 3,14,497 0 4 | 3,17,667 8 0 | 2,93,791 2 3 | 23,876 5 9 |
| Trichinopoly .. .. | Do. do. .. | 27,910 5 7 | 51,617 14 3 | 79,528 3 10 | 56,825 13 5 | 22,702 6 5 |
| Tanjore .. .. .. | Do. do. .. | 700 0 10 | 20,217 13 11 | 20,917 14 9 | 20,225 8 3 | 692 6 6 |
| | Total .. | 1,46,385 3 3 | 9,24,424 7 4 | 10,70,809 10 7 | 9,48,546 8 11 | 1,22,263 1 8 |

MADRAS,
27th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

## ANNUAL FORM No. 61.

*Forest Department, Madras, Southern Circle.*

REVENUE received and Outstandings on account of revenue during the forest year 1896–97.

| District. | Particulars. | Outstandings at commencement of year. | Value of sales and other revenue during year. | Total. | Amount realized during year. | Balance due to the department at end of year. | Remarks. |
|---|---|---|---|---|---|---|---|
| | | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | |
| Direction .. .. .. | Timber and other forest produce. | .. | 12 0 0 | 12 0 0 | 12 0 0 | .. | |
| Nilgiris .. .. .. | Do. do. .. | 844 0 10 | 56,157 0 2 | 57,001 1 0 | 50,963 3 10 | 6,037 13 2 | |
| North Coimbatore .. | Do. do. .. | 8,202 7 0 | 86,807 2 10 | 95,009 9 10 | 93,125 2 7 | 1,884 7 3 | |
| South do. .. | Do. do. .. | 1,711 0 0 | 1,47,576 8 11 | 1,49,287 8 11 | 1,47,275 12 4 | 2,011 12 7 | |
| Madura .. .. .. | Do. do. .. | 6,261 0 10 | 72,275 1 4 | 78,536 2 2 | 75,767 4 10 | 2,768 13 4 | |
| Tinnevelly .. .. | Do. do. .. | 1,078 13 3 | 98,019 8 3 | 99,098 5 6 | 87,670 5 2<br>+ * 30 1 9 | 11,397 14 7 | * Rupees 30-1-9 written off in Government Order, No. 711, dated 10th December 1896, communicated in Board's Proceedings, Land Revenue, No. 3, dated 5th January 1897. |
| North Malabar .. .. | Do. do. .. | 666 10 8 | 30,615 3 7 | 31,281 14 3 | 28,727 15 3 | 2,553 15 0 | |
| South do. .. .. | Do. do. .. | 2,023 8 0 | 93,718 1 6 | 95,741 9 6 | 94,259 9 6 | 1,482 0 0 | |
| South Canara .. .. | Do. do. .. | 3 0 0 | 66,348 3 1 | 66,351 3 1 | 65,146 12 1 | 1,204 7 0 | |
| | Total .. | 20,790 8 7 | 6,51,528 13 8 | 6,72,319 6 3 | 6,42,948 1 7<br>+ * 30 1 9 | 29,341 2 11 | |

MADRAS,
30th August 1897.

(Signed) W. H. MICHAEL,
Deputy Accountant-General.

ANNUAL FORM No. 62.

*Forest Department, Madras Presidency.*

**Financial results of the year 1896–97.**

| District. | Timber and other produce removed from the forests by Government Agency. | | Other revenue. | | Formation, protection and improvement of forests. | Total. | |
|---|---|---|---|---|---|---|---|
| | Receipts. | Charges. | Receipts. | Charges. | Charges. | Receipts. | Charges. |
| *Northern Circle.* | RS. | RS. | RS. | RS. | RS. | RS. | RS. |
| Ganjám .. .. | 5,649 | 7,542 | 33,211 | 50,210 | 25,851 | 38,860 | 83,603 |
| Vizagapatam .. .. | 1,682 | 2,930 | 31,069 | 18,176 | 15,544 | 32,751 | 36,650 |
| Gódávari .. .. | 4,057 | 1,563 | 1,08,311 | 43,049 | 20,855 | 1,12,368 | 65,467 |
| Kistna .. .. .. | 1,379 | 2,722 | 1,13,188 | 39,794 | 49,314 | 1,14,567 | 91,830 |
| Kurnool .. .. | 8,163 | 7,508 | 90,360 | 43,874 | 42,963 | 98,523 | 94,345 |
| Bellary .. .. .. | 8,686 | 8,757 | 1,26,016 | 22,766 | 23,350 | 1,34,702 | 54,873 |
| Anantapur .. .. | .. | .. | 65,651 | 24,294 | 14,218 | 65,651 | 38,512 |
| Total .. | * 29,616 | 31,022 | 5,67,806 | 2,42,163 | 1,92,095 | 5,97,422 | 4,65,280 |
| *Central Circle.* | | | | | | | |
| Nellore .. .. .. | 36,443 | 24,733 | 94,695 | 13,679 | 15,330 | 1,31,138 | 53,742 |
| Cuddapah .. .. | 8,725 | 14,508 | 1,26,481 | 46,555 | 33,608 | 1,35,206 | 94,671 |
| Chingleput .. .. | 238 | 333 | 38,501 | 18,331 | 14,260 | 38,739 | 32,924 |
| North Arcot .. .. | 11,264 | 9,691 | 1,45,979 | 27,376 | 55,667 | 1,57,243 | 92,734 |
| South Arcot .. .. | 19,465 | 11,043 | 95,861 | 24,657 | 31,064 | 1,15,326 | 66,764 |
| Salem .. .. .. | 90,121 | 66,537 | 2,03,722 | 41,556 | 63,659 | 2,93,843 | 1,71,752 |
| Trichinopoly .. .. | 10,173 | 5,082 | 46,653 | 18,119 | 40,800 | 56,826 | 64,001 |
| Tanjore .. .. .. | 823 | 797 | 19,403 | 3,995 | 3,402 | 20,226 | 8,194 |
| Total .. | 1,77,252 | 1,32,724 | 7,71,295 | 1,94,268 | 2,57,790 | 9,48,547 | 5,84,782 |
| *Southern Circle.* | | | | | | | |
| South Canara .. .. | 20,607 | 23,640 | 44,540 | 15,002 | 19,235 | 65,147 | 57,877 |
| North Malabar .. .. | 18,671 | 30,788 | 10,057 | 1,175 | 15,780 | 28,728 | 47,743 |
| South Malabar .. .. | 69,292 | 35,890 | 24,968 | 147 | 37,041 | 94,260 | 74,078 |
| Nilgiris .. .. .. | 32,439 | 48,688 | 18,524 | 4,613 | 31,559 | 50,963 | 84,860 |
| North Coimbatore .. | 20,421 | 18,854 | 72,704 | 5,005 | 52,525 | 93,125 | 76,384 |
| South Coimbatore .. | 49,143 | 52,410 | 98,133 | 7,343 | 30,371 | 1,47,276 | 90,124 |
| Madura .. .. .. | 4,615 | 9,627 | 71,152 | 7,598 | 31,262 | 75,767 | 48,487 |
| Tinnevelly .. .. | 7,799 | 10,143 | 79,883 | 7,003 | 41,116 | 87,682 | 58,262 |
| Total .. | 2,22,987 | 2,31,040 | 4,19,961 | 47,886 | 2,58,889 | 6,42,948 | 5,37,815 |
| Grand Total .. | 4,29,855 | 3,94,786 | 17,59,062 | 4,84,317 | 7,08,774 | 21,88,917 | 15,87,877 |

* The Conservator has not explained the difference between these figures and those given by the Accountant-General in Form No. 59.

# Annual Form No. 64.

*Forest Department, Madras Presidency.*

Abstract showing the Value of Live-stock, Stores, Tools and Plant for 1896–97.

| Districts. | Surveying, &c., instruments | | | | Tools | | | | Machinery | | | | Furniture | | | | Building materials, small stores, tents, &c. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at end of the year | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 (*c*) | 18 (*d*) |
| *Northern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Direction .. .. .. | 24 | 402 | 23 | 370 | .. | .. | 6 | 40 | .. | .. | .. | .. | 109 | 1,790 | 75 | 625 | .. | .. |
| Ganjám .. .. .. | 42 | 900 | 46 | 639 | 271 | 404 | 270 | 183 | .. | .. | .. | .. | 78 | 548 | 83 | 355 | .. | .. |
| Vizagapatam .. .. | * 19 | * 568 | 19 | 568 | * 166 | * 233 | 204 | 275 | .. | .. | .. | .. | * 107 | * 948 | 147 | 1,343 | .. | .. |
| Gódávari * .. .. .. | 60 | 534 | 90 | 467 | 680 | 1,194 | 609 | 1,108 | 3 | 136 | 1 | 102 | 87 | 661 | 245 | 1,794 | 14 | 2,356 |
| Kistna .. .. .. | 67 | 1,236 | 74 | 873 | 468 | 653 | 512 | 328 | .. | .. | .. | .. | 112 | 955 | 114 | 512 | .. | .. |
| Kurnool .. .. .. | 72 | 655 | 79 | 1,010 | 1,029 | 1,157 | 1,017 | 1,092 | .. | .. | .. | .. | 133 | 800 | 135 | 713 | 6 | 1,173 |
| Bellary .. .. .. | 83 | 201 | 97 | 278 | 334 | 458 | 468 | 615 | .. | .. | .. | .. | 45 | 282 | 61 | 408 | .. | .. |
| Anantapur .. .. .. | 53 | 240 | 53 | 220 | 240 | 723 | 247 | 710 | .. | .. | .. | .. | 91 | 553 | 107 | 613 | .. | .. |
| Total, Northern Circle .. | 420 | 4,736 | 481 | 4,425 | 3,188 | 4,822 | 3,333 | 4,351 | 3 | 136 | 1 | 102 | 762 | 6,537 | 967 | 6,363 | 20 | 3,529 |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Direction .. .. .. | 49 | 830 | 49 | 783 | (*a*) 4 | (*a*) 21 | 4 | 16 | .. | .. | .. | .. | 100 | 1,022 | 99 | 916 | .. | .. |
| Cuddapah .. .. .. | 125 | 628 | 124 | 625 | 475 | 1,356 | 550 | 1,374 | miles 3½ | 13,967 | miles 3½ | 13,967 | 118 | 872 | 129 | 926 | .. | .. |
| Nellore .. .. .. | 57 | 390 | 57 | 411 | 430 | 1,101 | 419 | 976 | 246 miles 9¾ | 35,031 | 246 miles 9¾ | 35,031 | 87 | 600 | 85 | 538 | .. | .. |
| Chingleput .. .. .. | 21 | 365 | 20 | 197 | 405 | 778 | 420 | 643 | .. | .. | .. | .. | 73 | 698 | 78 | 495 | .. | .. |
| North Arcot .. .. .. | 20 | 542 | 43 | 615 | 1,350 cwt. 33 | 1,780 | 894 cwt. 33 | 655 | 13 | 79 | 15 | 73 | 152 | 570 | 261 | 730 | 4 | 176 |
| South Arcot .. .. .. | 118 | 1,415 | 117 | 1,828 | 1,001 | 710 | 524 | 324 | 7 | 271 | 7 | 401 | 192 | 1,714 | 168 | 1,820 | 3 | 421 |
| Salem .. .. .. | 133 | 1,458 | 137 | 1,470 | 1,620 | 3,007 | 1,658 | 3,085 | 2 | 21 | 2 | 21 | 341 | 1,658 | 381 | 1,872 | .. | .. |
| Trichinopoly .. .. | 55 | 419 | 54 | 485 | 1,053 | 613 | 1,056 | 613 | 2 | 10 | 2 | 10 | 123 | 690 | 125 | 701 | 2 | 217 |
| Tanjore * .. .. .. | 21 | 105 | 20 | 90 | 110 | 86 | 67 | 41 | .. | .. | .. | .. | 30 | 276 | 29 | 270 | .. | .. |
| Total, Central Circle .. | 599 | 6,155 | 621 | 6,504 | 6,448 cwt. 33 | 9,452 | 5,592 cwt. 33 | 7,727 | 270 miles 13¼ | 49,379 | 272 miles 13¼ | 49,503 | 1,216 | 8,100 | 1,355 | 8,268 | 9 | 814 |

(*a*) Omitted to be shown in last year's return.

* Revised figures.

## Abstract showing the value of Live-stock, Stores, Tools and Plant for 1896-97—*cont.*

| Districts. | Buildings | | | | Live-stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Northern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | 1 | 1,600 | 1 | 1,600 | .. | .. | 1 | 103 | 134 | 3,792 | 106 | 2,738 | .. | 1,054 |
| Ganjám .. .. | 24 | 15,766 | 26 | 15,799 | 1 | 1,800 | .. | .. | .. | .. | .. | .. | 416 | 19,418 | 425 | 16,976 | .. | 2,442 |
| Vizagapatam .. .. | 18 | 1,035 | (a) 18 | (a)1,035 | .. | .. | .. | .. | 64 | 236 | 63 | 235 | 374 | 3,020 | 451 | 3,456 | 436 | .. |
| Gódávari (c) .. .. | 44 | 26,565 | 49 | 28,832 | 1 | .. | 1 | .. | 182 | 526 | 251 | 421 | 1,057 | 29,616 | 1,260 | 35,080 | 3,684 | .. |
| Kistna .. .. .. | (c) 64 | (c)12,323 | 71 | 11,740 | .. | .. | .. | .. | 5 | (c)2,440 | 5 | 1,865 | 716 | 17,607 | 776 | 15,318 | .. | 2,289 |
| Kurnool .. .. | 56 | 29,361 | 58 | 32,549 | 1 | 1,600 | 1 | 1,600 | 20 | 169 | 20 | 165 | 1,311 | 33,742 | 1,316 | 38,302 | 4,560 | .. |
| Bellary .. .. .. | 22 | 3,948 | 22 | 3,862 | .. | .. | .. | .. | 27 | 84 | 33 | 142 | 511 | 4,973 | 681 | 5,305 | 332 | .. |
| Anantapur .. .. | 14 | 12,808 | 16 | 15,619 | .. | .. | .. | .. | .. | .. | .. | .. | 398 | 14,324 | 423 | 17,162 | 2,838 | .. |
| Total, Northern Circle.. | 242 | 1,01,806 | 260 | 1,09,436 | 4 | 5,000 | 3 | 3,200 | 298 | 3,455 | 373 | 2,931 | 4,917 | 1,26,492 | 5,438 | 1,34,337 | 6,065 | .. |
| *Central Circle.* | | | | | | | | | | | | | | | | | | |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | (b) 2 | (b) 6 | 2 | 5 | (c) 155 | (c) 1,879 | 154 | 1,720 | .. | 159 |
| Cuddapah .. .. | 108 | 19,985 | 110 | 20,503 | 1 | 18 | 2 | 56 | .. | .. | .. | .. | 827 miles 3½ | 36,826 | 915 miles 3½ | 37,451 | 625 | .. |
| Nellore .. .. .. | 9 | 2,079 | 10 | 3,685 | .. | .. | .. | .. | 241 | 5,154 | 301 | 4,713 | 1,070 miles 9¾ | 44,355 | 1,118 miles 9¾ | 45,354 | 999 | .. |
| Chingleput .. .. | 17 | 4,300 | 18 | 5,004 | .. | .. | .. | .. | 31 | 27 | 34 | 33 | 547 | 6,171 | 570 | 6,372 | 201 | .. |
| North Arcot .. .. | (c) 41 | 8,298 | 42 | 8,414 | .. | .. | .. | .. | .. | .. | .. | .. | 1,576 cwt. 33 | 11,269 | 1,259 cwt. 33 | 10,663 | .. | 606 |
| South Arcot .. .. | 18 | 9,532 | 20 | 19,803 | .. | .. | .. | .. | 591 | 1,611 | 509 | •1,547 | 1,927 | 15,253 | 1,348 | 26,144 | 10,891 | .. |
| Salem .. .. .. | 19 | 15,489 | 19 | 15,489 | .. | .. | .. | .. | 4 | 87 | 16 | 1,002 | 2,119 | 21,720 | 2,213 | 22,939 | 1,219 | .. |
| Trichinopoly .. .. | 9 | 2,530 | 8 | 2,092 | .. | .. | .. | .. | 1,118 | 603 | 1,016 | 785 | 2,360 | 4,865 | 2,263 | 4,903 | 38 | .. |
| Tanjore .. .. | 6 | 406 | 7 | 586 | .. | .. | .. | .. | 50 | 111 | 44 | 101 | 217 | 984 | 167 | 1,088 | 104 | .. |
| Total, Central Circle .. | 227 | 62,619 | 234 | 75,576 | 1 | 18 | 2 | 56 | 2,037 | 7,599 | 1,922 | 8,186 | 10,798 miles 13¼ cwt. 33 | 1,43,322 | 10,007 miles 13¼ cwt. 33 | 1,56,634 | 13,312 | .. |

(a) The figures for the year 1896-97 not having been reported by the Collector, those for the preceding year have been adopted.
(b) Omitted to be shown in the last year's return.
(c) Revised figures.

## Abstract showing the value of Live-stock, Stores, Tools and Plant for 1896–97—*cont.*

| Districts. | Surveying, &c., instruments | | | | Tools | | | | Machinery | | | | Furniture | | | | Building materials, small stores, tents, &c. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 (*a*) | 18 (*b*) | 18 (*c*) | 18 (*d*) |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. |
| Direction .. .. | 41 | 454 | 42 | 504 | 1 | 30 | 1 | 30 | .. | .. | .. | .. | 97 | 723 | 102 | 769 | .. | .. | 5 | 764 |
| South Canara .. | * 107 | 1,092 | 115 | 1,141 | 544 | 725 | 592 | 782 | .. | .. | .. | .. | 157 | 1,325 | 160 | 1,329 | .. | .. | 2 | 225 |
| North Malabar .. | 47 | 1,104 | 70 | 1,355 | 626 | 1,423 | 626 | 1,423 | .. | .. | .. | .. | 87 | 692 | 87 | 692 | .. | .. | .. | .. |
| South do. .. | 27 | 939 | 33 | 875 | 589 | 637 | 739 | 845 | 12 | 103 | 17 | 145 | 64 | 525 | 95 | 709 | .. | .. | .. | .. |
| Nilgiris .. .. | 57 | 986 | 65 | 1,064 | 783 | 1,277 | 627 | 1,588 | 3 | 750 | 1 | 250 | 122 | 691 | 143 | 1,182 | .. | .. | 3 | 278 |
| North Coimbatore | 71 | 1,344 | 71 | 1,344 | 516 | 933 | 567 | 1,144 | .. | .. | .. | .. | 173 | 1,371 | 174 | 1,372 | 73 | 294 | 81 | 272 |
| South do. * .. | 78 | 1,583 | 84 | 1,534 | 583 | 602 | 588 | 584 | 6,560 | 255 | (*a*) 6,560 | 247 | 365 | 2,322 | 397 | 2,418 | .. | .. | .. | .. |
| Madura * .. | 59 | 1,597 | 58 | 1,571 | 1,106 | 998 | 1,070 | 692 | .. | .. | .. | .. | 214 | 1,158 | 212 | 1,104 | .. | .. | 5 | 645 |
| Tinnevelly .. | 92 | 1,592 | 106 | 1,592 | 458 | 1,515 | 541 | 1,316 | 15 | 289 | 15 | 289 | 337 | 2,142 | 453 | 2,423 | .. | .. | 1 | 428 |
| Total, Southern Circle .. | 579 | 10,691 | 644 | 10,980 | 5,201 | 8,140 | 5,351 | 8,404 | 6,590 | 1,397 | 6,593 | 931 | 1,616 | 10,949 | 1,823 | 11,998 | 73 | 294 | 97 | 2,612 |
| Grand total, * Presidency .. | 1,598 | 21,582 | 1,746 | 21,909 | 14,837 cwt. 33 | 22,414 | 14,276 cwt. 33 | 20,482 | 6,863 mls 13¼ | 50,912 | 6,866 mls 13¼ | 50,536 | 3,594 | 25,586 | 4,145 | 26,629 | 73 | 294 | 126 | 6,955 |

* Revised figures.

(*a*) The cost of tramway materials has not been given,

## Abstract showing the value of Live-stock, Stores, Tools and Plant for 1896-97—*cont.*

| Districts. | Buildings | | | | Live-stock | | | | Miscellaneous | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | On hand at commencement of the year. | | On hand at end of the year. | | Difference in value | |
| | Number. | Value. | Number. | Value. | Number | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | In favour of the year. | Against the year. |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| *Southern Circle.* | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | Rs. | Rs. |
| Direction .. .. | .. | .. | .. | .. | .. | .. | .. | .. | 646 | 574 | 674 | 600 | 785 | 1,781 | 824 | 2,667 | 886 | .. |
| South Canara .. .. | 21 | 7,458 | 14 | 7,556 | 1 | .. | .. | .. | 613 | 1,656 | 649 | 2,082 | 1,443 | 12,256 | 1,532 | 13,115 | 859 | .. |
| North Malabar .. | .. | .. | .. | .. | 22 | 29,350 | 22 | 37,225 | .. | .. | .. | .. | 782 | 32,569 | 805 | 40,695 | 8,126 | .. |
| South do. .. .. | 27 | 33,346 | 28 | 36,295 | 29 | 37,500 | 21 | 32,400 | 211 | 1,371 | 210 | 1,382 | 959 | 74,421 | 1,143 | 72,651 | .. | 1,770 |
| Nilgiris .. .. .. | 53 | 6,062 | 65 | 6,767 | 6 | 5,500 | 7 | 7,900 | 21 | 179 | 23 | 198 | 1,045 | 15,445 | 934 | 19,227 | 3,782 | .. |
| North Coimbatore .. | 49 | 12,313 | 51 | 16,188 | .. | .. | .. | .. | 319 | 476 | 340 | 528 | 1,201 | 16,731 | 1,284 | 20,848 | 4,117 | .. |
| South do. .. | 48 | 28,263 | 53 | 31,483 | 8 | 8,700 | 9 | * 22,500 | 136 | 736 | 148 | 834 | 7,778 | 42,461 | 7,839 | 59,600 | 17,139 | .. |
| Madura .. .. .. | 43 | 23,030 | 43 | 21,925 | .. | .. | .. | .. | .. | .. | .. | .. | 1,422 | 26,783 | 1,388 | 25,937 | .. | 846 |
| Tinnevelly .. .. | 111 | 22,434 | 115 | 27,443 | .. | .. | .. | .. | .. | .. | .. | .. | 1,008 | 27,972 | 1,231 | 33,491 | 5,519 | .. |
| Total, Southern Circle. | 352 | 1,32,906 | 369 | 1,47,657 | 66 | 81,050 | 59 | 1,00,025 | 1,946 | 4,992 | 2,044 | 5,624 | 16,423 | 2,50,419 | 16,980 | 2,88,231 | 37,812 | .. |
| Grand total, Presidency .. | 821 | 2,97,331 | 863 | 3,32,669 | 71 | 86,068 | 64 | 1,03,281 | 4,281 | 16,046 | 4,339 | 16,741 | 32,128 mls. 13¼ cwt. 33 | 5,20,238 | 32,425 mls. 13¼ cwt. 33 | 5,79,202 | 57,189 | .. |

* The value of elephants has now been fixed with reference to their probable selling value.

## ANNUAL FORM No. 63.

*Forest Department, Madras Presidency.*

STATEMENT of Elephants during the year 1896–97.

### PART I.

*Elephants in possession of the reporting officers throughout the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average cost of monthly keep including servants and food. | Rs. | A. | P. |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | | | |
| Conservator, Northern Circle. | Captain Gunning .. | Purchased in July 1888 .. .. .. | Per head .. | 90 | 8 | 0 |
| Gódávari .. | Surat Pari .. .. .. | Purchased in November 1894 in Sonepur fair. | Do. .. | 59 | 12 | 0 |
| Kurnool .. .. | Byragi Piari .. .. | Do. do. .. | Do. .. | (a) 54 | 13 | 4 |
| South Coimbatore. | 1. Sankara .. .. | Received from North Malabar on 28th June 1888. | Do. .. | 44 | 14 | 0 |
| | 2. Chloe .. .. .. | Do. | | | | |
| | 3. Karthiyayini .. .. | Received from South Malabar, August 1888. | | | | |
| | 4. Periya Rani .. .. | Do. do. May 1889. | | | | |
| | 5. Sinna Rani .. .. | Do. do. 19th August 1891. | | | | |
| | 6. Phyllis, II .. .. | Captured, 25th September 1892 .. | | | | |
| | 7. Jumbo, II .. .. | Do. | | | | |
| | 8. Ranger .. .. | Do. 23rd July 1893 .. .. | | | | |
| The Nilgiris .. | 1. Latchmi .. .. | Transferred from the Anamalais on the 30th January 1882 .. .. | Do. .. | 42 | 7 | 9 |
| | 2. Chinna Latchmi .. | Do. | | | | |
| | 3. Akbar Baksh .. .. | Born in 22nd February 1888 .. .. | | | | |
| | 4. Meenatchi .. .. | Do. in 9th April 1889 .. .. .. | | | | |
| | 5. N. Latchmi .. .. | Purchased in September 1894 .. .. | | | | |
| | 6. Seetha .. .. | Transferred from North Malabar in June 1896. | | | | |
| South Malabar .. | 1. Vixen .. .. .. | Transferred from Wynaad in 1882 .. | Do. .. | 31 | 5 | 0 |
| | 2. Peyru .. .. .. | Do. | | | | |
| | 3. Samson .. .. | Purchased from Mr. Morgan in 1885.. | | | | |
| | 4. Eva .. .. .. | Do. | | | | |
| | 5. Theebow .. .. | Captured on 3rd January 1886 .. | | | | |
| | 6. Juno .. .. .. | Do. on 17th February 1886 .. | | | | |
| | 7. Jupiter .. .. | Do. on 9th January 1887 .. .. | | | | |
| | 8. Maharajah .. .. | Transferred from Wynaad on 29th September 1888. | | | | |
| | 9. Gordon .. .. | Captured on 11th February 1889 .. | | | | |
| | 10. Eddy .. .. .. | Do. on 10th February 1890 .. | | | | |
| | 11. Loo .. .. .. | Do. on 21st April 1890 .. .. | | | | |
| | 12. Hercules .. .. | Do. on 24th December 1890 .. | | | | |
| | 13. Parvathi .. .. | Transferred from South Coimbatore in August 1891. | | | | |
| | 14. Jessie .. .. .. | Captured on 10th December 1891 .. | | | | |
| | 15. Tippu .. .. .. | Do. on 25th February 1893 .. | | | | |
| | 16. Maharani .. .. | Do. on 2nd March 1893 .. .. | | | | |
| | 17. Venus .. .. | Do. on 1st April 1893 .. .. | | | | |
| | 18. Charlie .. .. | Do. in February 1893 .. .. | | | | |
| | 19. May .. .. .. | Do. on 23rd November 1894 .. | | | | |
| | 20. Mars .. .. .. | Do. on 11th January 1896 .. | | | | |
| | 21. Abdul .. .. .. | Do. on 4th October 1891 .. | | | | |
| North Malabar .. | 1. Phyllis .. .. | Purchased in January 1878 .. .. | Do. .. | 49 | 14 | 10 |
| | 2. Peri .. .. .. | Captured in April 1889 .. .. .. | Do. .. | 43 | 3 | 1 |
| | 3. Kalyani .. .. | Purchased in October 1889 .. .. | Do. .. | 48 | 11 | 4 |
| | 4. Lallameah .. .. | Captured in March 1891 .. .. | Do. .. | 47 | 7 | 9 |
| | 5. Cherry.. .. .. | Do. in May 1892 .. .. .. | Do. .. | 46 | 8 | 5 |
| | 6. Moideen Khan .. | Do. on 3rd January 1896 .. | Do. .. | 48 | 14 | 0 |
| | 7. Padmini .. .. | Do. on 8th February 1896 .. | Do. .. | 42 | 0 | 11 |
| | 8. Mothy .. .. | Do. on 22nd ,, ,, .. | Do. .. | 43 | 10 | 10 |
| | 9. Kadar Buksh .. | Do. on 29th ,, ,, .. | Do. .. | 49 | 12 | 1 |
| | 10. Krishna .. .. | Do. on 3rd March 1896 .. .. | Do. .. | 41 | 12 | 9 |
| | 11. Thisbe .. .. | Do. on 15th April 1896 .. .. | Do. .. | 41 | 15 | 9 |

(a) This is the rate arrived at according to the audited figures of the Accountant-General. The Collector's statement gives Rs. 57–1–5 as the rate, and no explanation has been given for the variation.

(b) Died on 31st March 1897.

## Statement of Elephants during the year 1896-97—*cont.*

### PART II.

*Elephants received in the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average monthly cost of keep including servants and food. | |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | |
| Nilgiris .. .. | Zahara .. .. .. | Captured on 14th March 1896 and transferred from North Malabar on 12th November 1896. | Per head .. | RS. A. P.<br>39 12 0 |
| South Coimbatore | Neville .. .. .. | Captured on 2nd September 1896 .. | Do. .. | 16 5 7 |
| | Dora .. .. .. | Captured on 16th March 1894 and transferred from South Malabar on 25th December 1896. | Do. .. | 34 6 10 |
| | Jumbo I .. .. .. | Transferred from South Malabar on 25th December 1896. | Do. .. | 70 0 0 |
| | Baghavate .. .. | Do. do. | Do. .. | 58 0 0 |
| South Malabar .. | Flo .. .. .. | Captured on 14th January 1897 .. | Do. .. | * 32 8 0 |
| North Malabar .. | Ganapathy .. .. | Do. on 23rd ,, ,, .. | Do. .. | 24 0 2 |
| | Cow Elephant .. .. | Do. on 23rd February 1897 .. | Do. .. | 1 2 0 |
| | Josephine .. .. .. | Do. on 9th March 1897 .. .. | Do. .. | 43 9 5 |
| | Wilkie .. .. .. | Do. on 9th ,, ,, .. .. | Do. .. | 24 6 5 |
| | Kunjunni .. .. .. | Do. on 17th March 1897 .. .. | Do. .. | 31 4 5 |
| | Tusker Elephant .. .. | Do. on 19th ,, ,, .. .. | Do. .. | .. |
| | Sybil .. .. .. | Do. on 19th ,, ,, .. .. | Do. .. | 30 9 2 |
| | Arthur .. .. .. | Do. on 7th April 1897 .. .. | Do. .. | 25 4 11 |
| | Mukva Elephant .. .. | Do. on 14th ,, ,, .. .. | Do. .. | .. |
| | Pyramus .. .. .. | Do. on 15th ,, ,, .. .. | Do. .. | 29 7 3 |
| | Minnie .. .. .. | Do. on 8th June ,, .. .. | Do. .. | 34 11 8 |
| | Darsie .. .. .. | Do. on 8th ,, ,, .. .. | Do. .. | 16 1 6 |
| | Donald .. .. .. | Do. on 13th ,, ,, .. .. | Do. .. | 11 13 9 |
| | Ethel .. .. .. | Captured on 15th April 1895 and retransferred to North Malabar on 8th July 1896 from the Nilgiris. | Do. .. | 50 1 9 |

* Charged under A. VI (*a*).

## Statement of Elephants during the year 1896–97—*cont.*

### Part III.

*Elephants gone off the list during the year.*

| District. | Names. | When purchased or otherwise obtained by Government. | Average monthly cost of keep including servants and food. | | | | How disposed of. |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | | | | 5 |
| | | | | Rs. | A. | P. | |
| Ganjám .. | Kesari Pyari .. | Purchased in November 1894 at the Sonepur fair. | Per head .. | 57 | 12 | 5 | Died on 1st April 1897. |
| Nilgiris .. | Ethel .. .. | Captured on 18th April 1895 .. | Do. . | 14 | 10 | 0 | Retransferred to North Malabar on 8th July 1896. |
| South Canara | Canara Shankara .. | Purchased on 2nd August 1894. | Do. .. | 50 | 14 | 2 | Died on the 31st March 1897. |
| South Coimbatore | 1. Neville .. .. | Captured on 2nd September 1896. | Do. .. | 16 | 5 | 7 | Transferred to South Malabar on 10th March 1897 and there sold for Rs. 825. |
| | 2. Jumbo I .. | Arrived from South Malabar on 25th December 1896. | Do. | 70 | 0 | 0 | Transferred to Public Works Department with effect from 11th January 1897. |
| | 3. Baghavati .. | | | 58 | 0 | 0 | |
| South Malabar. | 1. Flo .. .. | Captured on 14th January 1897. | Do. .. | 32 | 8 | 0 | Sold in auction on 10th March 1897. |
| | 2. Jumbo .. .. | Transferred from Wynaad on 29th September 1888. | Do. .. | 37 | 2 | 8 | Transferred to South Coimbatore. |
| | 3. Mary .. .. | Captured on 31st March 1890.. | Do. .. | 28 | 10 | 0 | Sold in auction in March 1897. |
| | 4. Alice .. .. | Transferred from South Coimbatore in December 1893. | Do. .. | 22 | 2 | 0 | Do. |
| | 5. Pragasam .. | Do. do. | Do. .. | 21 | 14 | 0 | Do. |
| | 6. Dora .. .. | Captured on 16th March 1894. | Do. .. | 33 | 2 | 8 | Transferred to South Coimbatore on 25th December 1896. |
| | 7. Baghavati .. | Captured on 27th June 1893 and transferred from North Malabar on 29th August 1894. | Do. .. | 25 | 10 | 8 | Do. |
| | 8. Percy .. .. | Captured on 22nd November 1894. | Do. .. | 21 | 6 | 0 | Sold in auction in March 1897. |
| | 9. Hary .. .. | Do. on 11th Feb. 1895 .. | Do. .. | 14 | 12 | 0 | Do. |
| North Malabar. | 1. Cow elephant .. | Do. on 23rd Feb. 1897 .. | Do. .. | 1 | 2 | 0 | Died in the Kraal on 27th February 1897. |
| | 2. Tusker elephant. | Do. on 19th March ,, | Do .. | .. | .. | | Shot in the pit. |
| | 3. Mukva do. | Do. on 14th April ,, | Do. .. | .. | .. | | Died in the pit. |
| | 4. Plato .. .. | Do. on 27th May 1896 .. | Do. .. | 26 | 6 | 11 | Drowned in the Muthanga river on 20th November 1896. |
| | 5. Zahara .. .. | Do. on 14th March 1896 | Do. .. | 31 | 0 | 5 | Transferred to Nilgiris. |
| | 6. Shegaram .. | Do. on 14th ,, ,, | Do. .. | 18 | 5 | 10 | Sold in auction on 15th February 1897. |
| | 7. Draupathi .. | Do. on 15th Feb. ,, | Do. .. | 31 | 15 | 9 | |
| | 8. Pyrrah .. .. | Do. on 13th April ,, | Do. .. | 22 | 9 | 7 | |
| | 9. Colleen .. .. | Do. on 28th June ,, | Do. .. | 24 | 3 | 11 | |
| | 10. Saraswathi .. | Do. on 29th May ,, | Do. .. | 23 | 3 | 6 | |

GOVERNMENT OF MADRAS.

## REVENUE DEPARTMENT.

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READ—the following Proceedings of the Board of Revenue (Land Revenue), Forest No. 486, dated 13th November 1897:—

*Read*—file of reports received from Collectors and Conservators on the progress of Forest Administration during 1896–97.

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*Resolution*—Forest No. 486, dated 13th November 1897.

The Board resolves to submit to Government the progress report of Forest Administration in the Madras Presidency for the year ending 30th June 1897.

2. The suggestions of Government as regards the arrangement of the appendices have been adopted and the length of all the returns except Forest No. 45 has, in anticipation of sanction, been curtailed in accordance with the circular from the Government of India referred to the Board for remarks in Government Order, Mis. No. 3431, Revenue, dated 7th July 1897.

3. Complete statistical returns from Kistna and Ganjám were not received in the Board's office till the 28th September and 5th October, respectively, and the revised timber returns called for on the 25th September from the Collector of Vizagapatam were not submitted by him till the 11th October.

4. The report has, as usual, been prepared by Mr. Popert, the Senior Conservator of Forests.

(True Extract.)

(Signed) R. C. C. CARR,
Secretary.

To the Secretary to Government, Revenue Department,
with three copies of the Administration Report.

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ORDER—No. 273, Revenue, dated 16th May 1898.

Forest No. 71.

With its Proceedings read above, the Board of Revenue submits its report on the administration of the Madras Forest Department for the year ending 30th June 1897.

2. The preparation of the report was, as in the previous two years, entrusted to Mr. Popert, the Senior Conservator of Forests. The statements appended have in some cases been curtailed in size and re-arranged in accordance with the suggestions contained in G.O., No. 370, Revenue, dated 31st May 1897, and in the Government of

India Circular No. 12-F.—245-1, dated 25th June 1897. Revised forms of statements giving detailed information as to the origin and results of injuries done to forests have also been inserted in the present report in accordance with the instructions issued by the Government of India in its Circular No. 9-F.—171-1, dated 10th June 1897. The suggestions made in the Government of India Circular of the 25th June last quoted above were, however, merely referred for the opinion of Local Governments and have not yet been finally adopted and prescribed. The Board was premature, therefore, in having taken action thereon at the present stage.

3. *Extension and constitution of State Forests—alteration of area.*—The subjoined statement compares the areas of reserved forests and reserved lands at the beginning and at the end of the year under review :—

| — | Area on 1st July 1896. | Area added during 1896-97. | Area excluded during 1896-97. | Net increase or decrease. | Area on 30th June 1897. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Reserved forests .. .. .. .. | 12,388 | 863 | 113 | + 750 | 13,138 |
| Do. lands .. .. .. .. | 6,690 | 333 | 1,254 | — 921 | 5,769 |
| Total .. | 19,078 | 1,196 | 1,367 | — 171 | 18,907 |

Of the area added during the year, 845 square miles under reserved forests and 302 square miles under reserved lands represent the extent of new reserves, while the remainder is due to rectification of area. The area disafforested or freed from reservation in accordance with the policy enunciated by the Government of India in October 1894 was 80 square miles of reserved forests and 242 square miles of reserved lands, while the decrease, due to rectification under the two classes of lands, was 33 square miles and 94 square miles, respectively. Under reserved lands, there was also a further reduction of 845 square miles due to final reservation and 73 square miles to exclusion at settlement. The rectified figures now reported do not, however, exclude the area of the enclosures in the Salem reserves, wrongly taken into account in the returns furnished by the Survey of India party as, owing to press of other work, the survey of these small areas could not be undertaken before the close of the year under review. The actual area of State forests at the end of the year is, therefore, somewhat less than 18,907 square miles, the figure given in the above statement.

4. The total area under the control of the department having been less than it was in the previous year, the percentages of that area to the total extent of Government lands (21·24) and to that of unoccupied lands (36·46) also show an almost proportionate decrease as compared with the figures, 21·43 and 36·80, respectively, of 1895-96. Abstract B, appended to paragraph 2 of the report, in which detailed information on the above points is furnished has been prepared with considerable care, but its completeness is marred by a few unexplained variations between the figures given in columns 2 and 3 and the corresponding figures given last year, and by the fact that the area for which returns are reported to be not available is in excess of the previous year's figure by 250 square miles. The attention of the Settlement Department should be drawn to the matter.

5. The Board in paragraph 10 of its report estimates that, if a liberal margin of unreserved land is to be allowed for free grazing, local requirements and extension of cultivation, it will not be possible to add more than 1,114 square miles to the area already brought under control. The Government agrees that, making due allowance for the rectification of Salem figures and for the exclusion of areas at settlement, the area to be ultimately brought under control is not likely to exceed a total of 20,000 square miles. This represents about 22 per cent. of the total area of Government lands.

6. *Forest Settlement.*—The following table compares the outturn of Forest Settlement work during the year under review as gauged by the area added to the forests reserved under section 16 of the Forest Act with that of the previous four years :—

| — | 1892-93 (fifteen months). | 1893-94. | 1894-95. | 1895-96. | 1896-97. |
|---|---|---|---|---|---|
| | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| Outturn .. .. .. .. .. .. | 2,261 | 1,350 | 680 | 922 | 750 |

*Note.*—The figures given above are the net area arrived at, after allowing for rectification and after deducting the area disafforested from the total area notified.

The actual extent constituted as forest reserve during the year was, however, 845 square miles as against 858 square miles in 1895–96, while the extent in respect of which final notifications were issued during the two years was 656 square miles and 808 square miles, respectively. Judged by either criterion, therefore, the settlement work of the year fell short of that of the previous year. It has been pointed out in previous reviews that one of the main reasons for the slow progress made of late in settlement operations is that, while the blocks settled in former years were large hill areas comparatively free of rights and easy to deal with, those which have now to be settled are smaller and are situated in the neighbourhood of cultivated tracts and are more or less encumbered with communal or private rights. These difficulties have been, to some extent, met by the appointment of an additional Forest Settlement-officer. But the Government must rely on the Board to see that the officers employed on this important work perform their duties efficiently and promptly. The Board should not hesitate to recommend the transfer to other duty of any officer who is found to lack the necessary energy and activity.

The outturn of settlement work by Revenue Divisional officers does not call for any special remarks.

7. Including the leased forests in the Nilgiri district, the total area under the control of the Forest Department was about 20,021 square miles classified at present as follows:—

| | SQ. MILES. |
|---|---|
| Notified under section 16 ... ... ... ... ... ... | 13,138 |
| Do. do. 4 ... ... ... ... ... ... | 4,030 |
| Reserved under section 26 ... ... ... ... ... ... | 1,739 |
| Further Selections ... ... ... ... ... ... ... | 1,114 |

Of the area notified under section 4 of the Act, settlement work connected with 1,453 square miles was practically complete; by the close of the year under review 970 square miles was settled, but not reported on, and operations were being proceeded with in the case of 1,607 square miles. Making allowance for leased forests and future rectification, it is observed that, at the rate of outturn during the year under review, forest settlement work will take another six years to complete. The Government hopes, however, that no effort will be spared by all officers concerned to push on the work to as speedy a termination as is consistent with good and careful administration.

8. *Demarcation and Survey.*—As desired by the Government of India in its review of the report for 1895–96, the Board has, in its present report, dealt with the preliminary demarcation and survey of proposed reserves separately from the final demarcation and survey of settled reserves. In return No. 47, however, the distinction between the two classes of survey has not been maintained so far as they have reference to the work of the Survey of India parties. The Board has explained in a separate Proceedings that this is due to the plan found convenient in this Presidency, whereby a party when dealing with settled areas takes up at the same time any adjoining tracts recently added to the reserved area though not as yet settled. Preliminary surveys made by departmental officers have been excluded from the statement in accordance with the instructions of the Government of India.

9. *Preliminary demarcation and survey of proposed reserves.*—The work of preliminary survey done in the several districts is reviewed by the Board in paragraph 12 of its report. The information given is not very full; but the Government is glad to note that the outturn of work in preparing and revising the sketch-maps to accompany notifications under sections 4 and 16 was satisfactory. As regards demarcation, the outturn during the year under review (1,671 miles) showed an increase over that of the previous year (1,479 miles). The average rate per mile, however, for the whole

Presidency rose at the same time from Rs. 2–13–6 to Rs. 3–9–10. The cost per mile varied from As. 10–6 in South Canara to Rs. 15–10–8 in North Coimbatore. The latter rate is double that reported for the same division in the previous year. The Board explains that this increase as well as that observed in Tinnevelly was justified by the nature of the forests in which the work had to be done. The work and consequently the cost of demarcation must, of course, vary with the particular locality; but the Government trusts that the expenditure in each case is carefully scrutinized by the District Forest-officers and Collectors.

10. *Final demarcation and survey of settled reserves.*—The work of final demarcation during the past three years is compared in the subjoined statement:—

| | Permanent demarcation. | | | Re-clearing old lines, &c. | | |
|---|---|---|---|---|---|---|
| | 1894–95. | 1895–96. | 1896–97. | 1894–95. | 1895–96. | 1896–97. |
| | MLS. | MLS. | MLS. | MLS. | MLS. | MLS. |
| Northern Circle .. .. .. .. | 499 | 855 | 509 | 270 | 597 | 1,150 |
| Central ,, .. .. .. .. | 1,542 | 1,117 | 629 | 991 | 2,834 | 1,327 |
| Southern ,, .. .. .. .. | 230 | 217 | 238 | 171 | 193 | 549 |
| Total .. | 2,271 | 2,189 | 1,376 | 1,432 | 3,624 | 3,026 |
| | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. | RS. A. P. |
| Average cost per mile .. .. .. | 9 0 10 | 9 8 6 | 12 2 5 | 6 3 11 | 2 14 4 | 4 12 0 |

The abnormal increase in the number of miles re-cleared in 1895–96 was ascribed by the Board to short work in previous years and the decreased cost was explained by the fact that the work was carried out mostly by guards and watchers. The fall in outturn and increase in cost in the year under review is apparently accounted for by the omission from the statement of lines re-cleared by subordinates. A portion of the enhanced cost has, however, to be ascribed to the special difficulties of clearing and erecting cairns in certain localities and in Kistna to bad work. It is presumed that the Board has taken suitable notice of the conduct of the officers responsible for the original wrong demarcation in Kistna. It is noted that only 1,376 miles of boundary were permanently demarcated during the year, and that 504 miles remained to be demarcated at the end of the year. The work is thus in arrear and should be pushed on.

11. The area topographically surveyed by the Survey of India Party No. 19 during the year under review was 745 square miles, and the cost incurred per square mile Rs. 84 as against 964 square miles and Rs. 66, respectively, in the previous year. The main cause of the decrease in outturn and increase in cost is reported to be the difficult nature of the country and the dense forests in the Kurnool district. The new Party No. 9 surveyed about 66 square miles only at a cost of about Rs. 354 per square mile. The abnormally high rate is attributed to the fact that the party was unable to work throughout the season owing to bad weather and the inefficiency of the subordinate staff, and that the cost of its transfer from the Central Provinces for work in Madras was very heavy. The Government is glad to note that arrangements have since been made to combine the two parties under the charge of one officer and to give the necessary training to the subordinates employed, and it is hoped that future operations will be more efficiently conducted.

As regards departmental surveys, the report mentions the work done in Bellary and Salem only; but from statement No. 47 appended to the report, it appears that a considerable amount of work was also done in Kistna, Trichinopoly, Ganjám, Vizagapatam, Kurnool, South Canara and North Malabar. In the absence of detailed information, however, it cannot be ascertained how far the outturn in the several districts was commensurate with the strength of the staff employed or with the work that had to be done. In future reports the matter should be more fully dealt with. The reports abstracted in Appendix D show that due attention was paid by District officers in all districts to the importance of having the maps maintained in accordance

with the provisions of section 81 of the Forest Code. From Appendix E it appears that the area of reserves for which final maps had been prepared was 6,812 square miles as against 5,248 square miles * at the end of the previous year. Maps have still to be prepared for 6,426 square miles of reserves.

* *Vide* paragraph 23 (4) *infra.*

12. *Management of State forests—Working plans and annual plans of operations.*—The total area of forests for which working plans were completed by the close of the year under review was 317 square miles and plans for 769 square miles more were under preparation. The corresponding figures for the previous year were 183 and 808 square miles, respectively. In several of the districts, the plans already approved were adhered to, while in others it would appear that, owing to press of other work, the famine and a variety of minor causes, deviations from the sanctioned schemes were found to be necessary. The total area for which plans had already been prepared, or were under preparation, being only 1,086 square miles, the area that remained to be dealt with at the close of the year was about 17,821 square miles. Of the two main causes which have hitherto retarded progress, viz., delay in the completion of settlement work and inadequacy of establishments, the latter has since been remedied to a great extent, and the Government trusts that it will be found possible in future to accelerate progress in the preparation of working plans. The annual plans of operations are reported to have been fairly well adhered to except in the Southern Circle, where forest surveys and settlements, slackness of demand and altered conditions appear to have interfered with their enforcement in most districts. It is stated that no information on the subject was furnished in the reports received from Bellary and South Coimbatore. This is not satisfactory.

13. *Communications and Buildings.*—The expenditure incurred during the year in the construction and repair of communications and buildings (Rs. 99,833) was in excess of that of previous year by Rs. 27,750. It is satisfactory to note that of this sum, Rs. 18,955 represents the increased expenditure on roads and bridges. The tramways in Cuddapah and South Coimbatore are reported to have worked at a loss, while those in Nellore worked at a profit. As pointed out in the previous year's review, the reported profit or loss is based on an estimate of what transport by country cart would have cost. As regards the Nellore tramways, no information as to the data on which this estimate is calculated is given in spite of the instructions issued in the previous reviews. In the case of the South Coimbatore lines, the estimate of the cost of transport by cart is apparently meaningless as it is reported that the real advantage gained by working the tramway is that wood is extracted which, under other circumstances, it would be impossible to work out. The Board should consider whether some more satisfactory way of estimating the usefulness of these tramways could not be devised.

14. *Protection of forests from injury.*—The subjoined statement shows the number and disposal of cases relating to forest offences during the past three years :—

| Years. | Number of cases for disposal. | | | Number of cases disposed of. | | | | Number of acquittals. | Percentage of cases compounded to cases disposed of. | Percentage of acquittals to cases dealt with by the magistracy. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cases pending | New cases. | Total. | Withdrawn. | Compounded. | Dealt with by the magistracy. | Total | | | |
| 1894-95 .. | 1,604 | 9,883 | 11,487 | 904 | 5,109 | 4,039 | 10,052 | 750 | 51·8 | 18·6 |
| 1895-96 .. | 1,365 | 9,610 | 10,975 | 1,009 | 4,531 | 3,862 | 9,402 | 796 | 48·2 | 20·6 |
| 1896-97 .. | 1,580 | 11,638 | 13,218 | 1,624 | 5,793 | 4,025 | 11,442 | 672 | 50·63 | 16·7 |

It will be seen that there was an increase of 2,028 cases during the year under review. The number of cases prosecuted, however, increased by only 287. Much the greater proportion of the additional cases therefore were either withdrawn or compounded. Withdrawals show an increase of 615 or of 60·7 per cent. over the figure for the previous year. It is unsatisfactory to note that so many petty or doubtful

cases are reported and more careful instruction of the subordinate staff seems to be required. The number of cases compounded increased by 1,262, an increase of 27·8 per cent. The amount of compensation realised was the largest yet reached, viz., Rs. 45,279. The increase was most marked in the Northern and Southern Circles. The Board has not furnished any adequate explanation of these figures. The greatest care should be taken that the principles repeatedly laid down in the reviews of previous reports both by this Government and the Government of India as to the composition of forest offences are not overlooked in practice. District Forest-officers should carefully scrutinise every case proposed to be compounded and satisfy themselves that the case is a *bonâ fide* one clearly proved and that the compensation is not offered merely to escape the worry of a vexatious prosecution. The fall in the percentage of cases acquitted is satisfactory as showing that more care was exercised in ordering prosecutions and it is noted that several of the acquittals were due to a mistake of law which has been since pointed out by a ruling of the High Court.

The number of cases of injury by fire remained practically stationary. The prevalence of illicit goat browsing in South Arcot and North Arcot suggests the need for making some further provision for goat browsing in these districts. The Government regrets to note a recrudescence of the lawless violence which marked forest offences in Cuddapah a few years back. It is hoped that the preventive measures taken will prove successful.

15. The results of the measures adopted for the protection of forests from fire during the past three years are exhibited in the following statement:—

| Years. | Area in which fire protection was attempted. | Percentage area successfully protected. | Average cost of protection per square mile. |
|---|---|---|---|
| | SQ. MLS. | | RS. A. P. |
| 1894–95 .. .. .. .. .. .. | 4,979 | 94 | 8 7 11 |
| 1895–96 .. .. .. .. .. .. | 5,594 | 94 | 7 8 10 |
| 1896–97 .. .. .. .. .. .. | 5,363 | 99 | 7 5 6 |

It is noted that the action of the ryots themselves in abstaining from intentionally causing fires in order that old grass-stalks might be destroyed and new shoots produced through fear of scarcity of fodder contributed largely to the satisfactory result attained during the past year.

16. The total areas closed and open to grazing during the past two years are compared in the following statement:—

| Year. | Total area under control. | Closed to all animals. | | Closed to goats or sheep or both. | | Open to all animals. |
|---|---|---|---|---|---|---|
| | | Whole year. | Part of year. | Whole year. | Part of year. | Whole year. |
| | SQ. MLS | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. | SQ. MLS. |
| 1895–96 .. .. .. .. | 19,078 | 2,348 | 281 | 17,319 | .. | 729 |
| 1896–97 .. .. .. .. | 18,907 | 1,767 | 226 | 18,081 | 96 | 744 |

The figures for 1896–97 in the last three columns of the statement above (taken from form No. 52) total up to 18,921 square miles or more than the area under control and are therefore apparently incorrect. It is, however, clear from the figures furnished that sheep were admitted to 11,518 square miles of reserves and goats to 840 square miles. The Board has since reported that further provision for goats has been made in the Cuddapah district.

17. *Improvement of forest growth.*—Natural reproduction appear to have proceeded satisfactorily except in the Northern and some parts of the Central Circle where owing to famine and the damage done to reserves by cattle and grass-cutters the results obtained were disappointing. The area under regular plantations rose from

18,067 acres in 1895–96 to 23,186 acres in 1896–97 and the expenditure from Rs. 34,070 to Rs. 34,865. There was a small decrease in the area in which cultural operations were carried on and a very small increase in that of topes. The progress made in experiments conducted with seeds and seedlings is reported to have been somewhat slow, but in regard to such of these as were carried out during the year some interesting information is furnished in paragraph 33 of the Board's report. In accordance with the wishes of the Government of India expressed in its review of the annual administration report for 1895–96 a special report has been called for from the Board in regard to the feasibility of growing forests of *ceara* rubber in this Presidency. A report is also due from the Board on the subject of the ravages made by caterpillars in the sâl tracts of Ganjám in May 1896. From the fact that the report now under review merely states that the natural reproduction of the tree in the district left nothing to be desired it may presumably be inferred that the attack was not repeated. The submission of the reports called for should, however, be expedited.

18. *Exploitation of major and minor forest produce.*—The operations connected with the exploitation and removal of major forest produce have been fully reviewed by the Board in paragraphs 34 to 38 of the present report and do not call for any special remarks. As regards minor produce the Government notes that notwithstanding the throwing open of the reserves in several of the districts to free grazing on account of famine the grazing revenue of the year reached the highest figure yet attained and amounted to Rs. 3,76,354 or nearly Rs. 36,000 more than in the previous year. The revenue was as usual the highest in Kistna (Rs. 70,389), Salem (Rs. 50,943) and North Coimbatore (Rs. 35,914) coming next. As compared with 1895–96 the increase in the two districts last mentioned alone was Rs. 27,745 and has been ascribed in Salem to revision of rates and in North Coimbatore to a very large addition to the number of licensed animals admitted into the reserves. Although the revenue was highest in Kistna yet it was lower in this district than in the previous year. The Board remarks that "Kistna under the parcellaire system again shows a reduction of revenue"; but it is observed that the decrease has to be attributed to the fact that people were allowed to take some grass free and to the migration of professional herdsmen to better pastures. In Bellary as well as in Salem the increase of grazing revenue is ascribed in part to the enhancement of the rates. The Board should report the circumstances which led to an enhancement of the rates at a time of scarcity. As regards the smaller items of minor produce, the Government notes from paragraph 51 of the report that due attention is being paid to the importance of preventing the collection of such produce being monopolised by petty contractors to the detriment of the ryot.

19. *Gross yield and outturn of forest produce.*—The particulars under this head during the past five years are compared in the following statement:—

| Years, &c. | Timber including sandalwood. | Fuel. | Bamboos. | Minor produce (gross value). |
|---|---|---|---|---|
| | C. FT. | C. FT. | NO. | RS. |
| 1892–93 (15 months) .. .. .. .. .. | 2,966,556 | 12,138,565 | 20,779,393 | 8,03,255 |
| 1893–94 .. .. .. .. .. .. .. | 3,072,496 | 12,184,996 | 25,304,261 | 7,89,661 |
| 1894–95 .. .. .. .. .. .. .. | 2,777,658 | 12,025,734 | 29,793,193 | 8,81,070 |
| 1895–96 .. .. .. .. .. .. .. | 2,907,046 | 13,739,385 | 33,725,819 | 10,79,886 |
| 1896–97 .. .. .. .. .. .. .. | 2,642,276 | 12,182,192 | 30,946,684 | 9,42,739 |
| Increase or decrease in 1896–97 as against 1895–96 .. | — 264,770 | — 1,557,193 | — 2,879,135 | — 1,37,147 |
| Percentage of the increase or decrease above mentioned. | — 9·1 | — 11·3 | — 8·5 | — 12·7 |

The causes of the variations in the above figures in the case of collections and removals by Government and private agencies are set forth by the Board in paragraphs 43 and 44 of its report. The prevailing scarcity restricted the demand of purchasers. The removals of grass under free grants at the same time greatly increased owing to the opening of the forests in the affected districts. The forests have thus proved a substantial help to the people in their distress during the year.

20. The profit derived from the working of the forest produce by departmental and private agencies during the past two years is compared in the sub-joined table :—

| | 1895-96. | 1896-97. |
|---|---|---|
| | Rs. A. P. | Rs. A. P. |
| Departmental working— | | |
| Timber per cubic foot ... ... | 0 2 7 | 0 3 2 |
| Fuel do. ... ... ... | 0 0 1 | 0 0 2 |
| Bamboos each ... ... ... | 0 0 5 | 0 0 3 |
| Sandalwood per cubic foot ... ... | 3 13 10 | 5 11 4 |
| Minor produce per maund ... ... | 0 5 1 | 0 3 7 |
| Private working— | | |
| Timber per cubic foot ... ... | 0 1 4 | 0 1 6 |
| Fuel do. ... ... ... | 0 0 5 | 0 0 4 |
| Bamboos each ... ... ... | 0 0 1 | 0 0 1 |
| Net profit ... Grazing ... ... | 2,73,330 0 0 | 2,88,797 0 0 |
| Net profit ... Minor produce ... | 5,74,740 0 0 | 3,69,557 0 0 |

Excluding sandalwood and minor produce, as regards which a comparison between the results obtained under the two systems of working cannot be made, the Government notes that departmental working had the advantage over private working in the matter of the collection of both timber and bamboos. This is, however, reported to have been due to the sale of a large quantity of valuable timber and to the extraction of a superior quality of bamboos by departmental agency. As indicated in several of the previous reports and reviews, however, no definite conclusion can be arrived at from a comparison of figures as to the relative advantages of the departmental and private systems of extracting forest produce. If competition is freely encouraged and monopolies thus guarded against, private working is, perhaps, less liable to abuse and more likely to meet the ryots' wants. In accordance with the views of the Government of India, instructions have been issued for the gradual introduction of private working in place of departmental agency wherever possible without detriment to the interests of the public.

21. *Financial results.*—The financial result of the year's working is compared with that of the previous year in the following statement :—

| — | Receipts. | Charges. | Surplus. | Proportion of surplus to gross revenue. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs. | |
| 1895-96 *— | | | | |
| Northern Circle .. .. .. .. | 7,23,859 | 3,83,877 | + 3,39,982 | 47 |
| Central „ .. .. .. .. | 9,39,733 | 5,60,995 | + 3,78,738 | 40 |
| Southern „ .. .. .. .. | 5,04,038 | 5,24,116 | — 20,078 | .. |
| Total .. | 21,67,630 | 14,68,988 | + 6,98,642 | 32 |
| 1896-97 *— | | | | |
| Northern Circle .. .. .. .. | 5,97,422 | 4,65,280 | + 1,32,142 | 22 |
| Central „ .. .. .. .. | 9,48,547 | 5,84,782 | + 3,63,765 | 38 |
| Southern „ .. .. .. .. | 6,42,948 | 5,37,815 | + 1,05,133 | 16 |
| Total .. | 21,88,917 | 15,87,877 | + 6,01,040 | 27 |
| Increase or decrease in 1896-97 *— | | | | |
| Northern Circle .. .. .. .. | — 1,26,437 | + 81,403 | — 2,07,840 | .. |
| Central „ .. .. .. .. | + 8,814 | + 23,787 | — 14,973 | .. |
| Southern „ .. .. .. .. | + 1,38,910 | + 13,699 | + 1,25,211 | .. |
| Total .. | + 21,287 | + 1,18,889 | — 97,602 | .. |
| Average * for the four years ending 30th June 1896 .. .. .. .. .. .. | 19,34,302 | 14,08,318 | 5,25,984 | 27 |

* Forest year.

The surplus of revenue over charges was Rs. 6,01,040, *i.e.*, about one lakh less than the surplus in the previous year. In so far as the decrease has to be ascribed to the free concessions made in the affected districts of the Northern Circle, the result must be considered very satisfactory.

22. *Forest Administration.*—The Government notes with satisfaction that the working of the rules under section 26 of the Forest Act has been generally successful. The Collector of Vizagapatam should carefully enquire into the reasonableness or otherwise of the complaint of the ryots, that only worthless trees are excluded from the classified lists. No allusion is made in the report to the working of the rules which have been framed under the Act for the management of forests and waste lands in certain private estates.* The Collectors of the districts where these estates are situated should be instructed to submit, for incorporation in the report, brief notes on any question of interest that may have arisen in the working of such forests during the year.

* Viz., Jeypore, Vizianagram and Sáptúr.

Complaints usually of a general nature and largely based on misapprehension having been frequently made against the administration of the department, the Government in July last issued a general order reviewing and re-affirming the principles of forest policy so often enunciated both by this Government and the Government of India. His Excellency in Council trusts that the publication of this order will lead to a better understanding of the policy of Government and heartier co-operation between the people and the officers of the department.

The conduct of the subordinate executive staff is not favourably reported on. The improvement in the pay and prospects of this branch of the department which has been effected by the recent re-organization will, it is hoped, in time remedy matters.

The Government is pleased to observe the testimony borne by the Conservators to the good work done by the Superior officers of the department.

23. The following minor discrepancies are noticed :—

(i) The area of the forests finally settled during the year, as given in statement No. 45, totals up to 796·8 square miles, while from abstract A in paragraph 1 and the statement in paragraph 5, it appears to have been 656 square miles or making allowance for rectification and rounding off 673 square miles. Even supposing that the whole area disafforested (80 square miles) was settled during the year, the total comes up only to 753 square miles.

(ii) In abstract F, attached to paragraph 10 of the report, against Ganjám, either the figure 85 given in column 4 is a mistake for 93 or the figure 649 given in column 5 is a mistake for 641. In the latter case, however, the percentages given in columns 6 and 7 against the district will have to be altered. It is observed that the heading of column 7 is slightly misleading as in calculating the percentages given therein the area of lands for which returns are not available has also been taken into account.

(iii) The figures for 1895–96 given in abstract G, appended to paragraph 14 of the present report, in a few cases do not agree with those given in the corresponding statement attached to the report for 1895–96.

(iv) In columns 23 and 24 of statement No. 47, the outturn of boundary surveys is shown in "miles", while in columns 15 and 16 of the same statement, as well as in the corresponding columns of the previous year's statement, it is shown in "square miles". Apparently the figures given in columns 15 and 16 represent the area of the reserves of which the boundaries have been surveyed.

(v) The figures given in appendix E, relating to the area for which final maps have been prepared, total up to 6,812 and not 6,712 as given by the Board.

(vi) In paragraph 29, the Board reports that 78 square miles were open in this Central Circle to all animals; but in the last column of form No. 52, the area so open is shown as 83 square miles.

24. *Conclusion.*—The continuance of Settlement work has impeded the development of the forests to some extent by diverting to that work the time and attention of a large portion of the forest staff and delaying the preparation of proper working plans. Nevertheless, the Government considers that much has been done towards the improvement of forest growth. The amounts of timber, fuel and grass removed—a great portion, especially in the affected districts, on free grants, — prove that the department has satisfactorily met the wants of the people.

(True Extract.)

(Signed) G. S. FORBES,
Ag. Secretary to Government.

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on 01 February, 2020